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(54) SYSTEM AND METHOD FOR PROVIDING SHOPPING AIDS AND INCENTIVES TO CUSTOMERS
THROUGH A COMPUTER NETWORK

SYSTEM UND VERFAHREN ZUM BEREITSTELLEN VON EINKAUFSHILFEN UND ANREIZEN FÜR
KUNDEN DURCH EIN COMPUTERNETZWERK

DISPOSITIF ET PROCEDE DESTINES A FOURNIR DES INCITATIONS D'ACHAT ET UNE
ASSISTANCE COMMERCIALE A DES CLIENTS PAR L'INTERMEDIAIRE D'UN RESEAU
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Description**BACKGROUND OF THE INVENTION**

[0001] This invention relates generally to systems for providing incentives to customers to shop in retail stores and, more particularly, to systems for delivering customer incentives and other shopping aids via a computer network. Various approaches have been widely used to deliver purchasing incentives, usually in the form of printed discount coupons, to customers of retail stores. Coupons have been distributed to customers by mail, either in a random manner or in a more demographically focused manner. Coupons have also been delivered to customers in retail stores, either from kiosks or at the check-out stand in response to the customer's purchase of some preselected item or items. The latter technique is well documented in prior patents assigned to the same assignee as the present application; e.g., U.S. Pat. No. 4,723,212, "Method and Apparatus for Dispensing Discount Coupons."

[0002] In recent years, an increasing number of retail store customers also own personal computers and, of these, many have access to computer network services that provide connections to the Internet and the World Wide Web. Although some computer sites connected to the World Wide Web have begun to offer "online" shopping services, and some services have proposed to deliver discount coupons through a computer network, the full potential of online delivery of incentives has not been realized prior to the present invention.

[0003] US-A-5347632 discloses an interactive computer system enabling a user to display required information and to perform desired transactional services such as banking and shopping through a personal computer. User characteristics are monitored by the system so as to generate and display specific advertisements to the user based on individual usage characteristics and predetermined interests.

[0004] The present invention seeks to prevent fraud over the Internet when incentives are transmitted by a server computer.

SUMMARY OF THE INVENTION

[0005] According to this invention there is provided a method and system as claimed in claims 1 and 47 respectively herein, at least.

[0006] The present invention resides in a system and method for the distribution, via a computer network, of incentives and other related shopping aids useful to retail customers. Importantly, the incentives are distributed in such a way that they may be redeemed only at a specific retailer selected by each customer.

[0007] Briefly, and in general terms, the method of the invention comprises a sequence of steps performed at a central site in cooperation with a communication device at a customer site. The steps include logging in a

remotely located customer using identity data and geographic region data transmitted by the customer over a communication network; transmitting back to the registered customer a plurality of incentive offers, the incentive offers being exercisable in the customer's geographic region; and then receiving incentive offer selection data from the customer over the communication network, the offer selection data including the designation of a retailer at which selected offer or offers may be exercised. In response to the customer selection data, the method performs the steps of generating a purchasing incentive containing (in encoded form) the identity of the retailer designated by the customer and the identity of the customer; and transmitting at least one incentive to the customer over the communication network, for subsequent printing by the customer. For security reasons, the transmitted incentive may be encoded with the identity of the retailer selected by the customer, and preferably also contains a customer identification code.

[0008] An important element of the invention is that it permits the customer to plan his or her shopping and shopping-related activities more efficiently. To this end, the method also includes the step of communicating with the customer concerning the use of shopping aids other than incentives or coupons. In one aspect of the invention, this communicating step includes transmitting a list of products available for purchase, receiving customer selections from the list of products, and then transmitting a shopping list to the customer. Thus the customer may browse through a list or index of available products, preferably organized by store department, and then make selections by marking appropriate entries on a computer screen, such as by positioning a mouse pointer on the desired items and clicking a mouse button.

[0009] Another aspect of the invention includes the steps of transmitting meal planning information, including a list of recipes, to the customer, receiving a customer selection of one or more recipe, transmitting back to the customer a shopping list that includes ingredient products needed in each selected recipe, and possibly transmitting to the customer at least one purchase incentive pertaining to an ingredient product used in a selected recipe. While shopping for products with purchasing incentive offers, or while preparing a shopping list, the customer may also use this feature to obtain the details of any recipe that is found to be of interest. The system of the invention transmits the recipe in two separate portions: (a) a complete copy of the recipe in traditional format, including a list of ingredients, and preparation and serving instructions, and (b) the list of ingredients in shopping list form, which the customer may take to the store. The latter portion of the recipe is added to the customer's shopping list automatically and the system transmits a purchase incentive or coupon if an incentive offer is associated with any of the recipe ingredients. The system also provides other meal planning information such as meal calorie and fat content, vege-

tarian meal ideas and recipes, recipes for meals that can be prepared in under thirty minutes, and so forth.

[0010] The purchasing incentive offers in the presently preferred embodiment of the invention are derived from two sources: product manufacturers and retailers. The manufacturers' incentives are presented to the customer in the form of a convenient index that the customer can browse through and select from. Similarly, retail supermarkets provide the source of another set of special offers, organized by store.

[0011] Another important aspect of the invention is the manner in which incentives or coupons are generated in the system of the invention. Specifically the step of generating a purchase incentive includes converting numeric and textual information provided by the customer to graphical form; converting other numeric and textual information to graphical form; and merging the converted information with other graphical information defining the incentive, to form a composite graphical incentive image for transmission to the customer.

[0012] In one embodiment of the invention the step of transmitting at least one incentive includes transmitting only an advisory message to the customer, and transmitting the terms of the incentive directly to the retail store selected by the customer, for use by the customer on a subsequent visit to the store. In a related embodiment, the step of transmitting at least one incentive includes transmitting only an incentive token to the customer, and transmitting the terms of the incentive directly to the retail store selected by the customer, for use by the customer, who brings the token to the store on a subsequent visit, and receives the discount or other benefit defined by the incentive offer.

[0013] The invention may also be defined in terms of a method for distributing purchasing incentives and other shopping aids to customers over a communication network, the method comprising the steps of: (1) registering as a customer by providing at least an individual identification, a postal region code, and retail store selection; (2) transmitting from a central site and receiving at a remote customer site, a plurality of incentive offers, each of which is exercisable based on the customer's postal region; (3) selecting at the customer site one or more of the incentive offers and transmitting these selections back to the central site; (4) generating at least one purchasing incentive containing in encoded form the identity of the retail store selected by the customer and the identity of the customer; and (5) transmitting at least one incentive to the customer.

[0014] The invention may also be defined in terms of a system for distributing purchasing incentives to retail customers, the system comprising a communication network establishing bi-directional communication between a central site and each of a plurality of customer devices; a file at the central site containing a plurality of incentive offers; and a computer located at the central site, for coordinating bi-directional communication with the customers over the communication network. The

computer at the central site includes means for registering customer information at the central site, based on information transmitted from any of the customer devices to the central site computer, over the communication network, the customer information including geographical region data and identification data; means for retrieving incentive offers from the file of incentive offers, based on the customer's geographical region, and transmitting the retrieved offers to the customer over the communication network; means for receiving customer

selections made from the incentive offers transmitted to the customer, and for receiving a customer designation of a retailer at which the selected incentives are to be exercised; means for generating at least one purchasing incentive containing in encoded form the identity of the retailer designated by the customer and the identity of the customer; and means for transmitting the generated purchasing incentive to the customer over the communication network.

[0015] More specifically, the system further comprises another file at the central site containing a list of products available for purchase; and the computer at the central site further includes means, responsive to a customer request, for transmitting the list of products to the customer, receiving customer selections from the list, and transmitting a shopping list back to the customer. The system may further comprise another file at the central site containing meal planning information available for customer use; and the computer at the central site further includes means, responsive to a customer request, for transmitting meal planning information including a list of recipes to the customer, receiving customer selections from the list, and transmitting complete recipes back to the customer, together with an ingredients shopping list and any associated purchasing incentives.

[0016] In the disclosed embodiment of the invention, the means for retrieving incentive offers and transmitting them to the customer includes a manufacturer offer file containing purchasing incentive offers currently proposed by manufacturers of products for sale to customers, and also includes a retailer offer file containing purchasing incentive offers currently proposed by retailers of products for sale to customers.

[0017] In one form of the invention, the generated purchasing incentive is transmitted to the customer in the form of an advisory message only, and the computer further includes means for transmitting the terms of a purchasing incentive directly to the retail store designated by the customer, who may then exercise the incentive upon visiting the designated store. In a related form of the invention, the generated purchasing incentive is transmitted to the customer in the form of an encoded token, and the computer further includes means for transmitting the terms of the purchasing incentive directly to the retail store designated by the customer, who may then exercise the incentive upon visiting the designated store and presenting the token.

[0018] Implementation of the invention in the form of

a network site, such as a World Wide Web site, represents a significant departure from prior, conventional uses of Web sites for commercial purposes. Instead of being administered by or for a single commercial entity, the Web site through which customers communicate in accordance with the present invention is a cooperative site involving both retailers and manufacturers, to provide customers with a variety of information, planning aids, and shopping incentives from multiple sources.

[0019] A difficulty with conventional incentive distribution methods is that different retail marketing areas have different weekly cycles on which incentives and discounts are based. In one area, retailers may advertise weekly specials beginning on Thursdays in preparation for weekend buying, while in another area they may advertise weekly specials in a Sunday newspaper supplement. Manufacturers may offer special deals that are completely unsynchronized with these local retailer cycles, based, for example, on a calendar week starting on some other day. In the cooperative site on which the present invention is implemented, all the advertised incentives, whether coming from retailers or manufacturers, can be timed to comply with the advertising cycle of the local retail region.

[0020] Another aspect of the invention allows the customer to receive more focused incentives if he or she elects to supply a customer identifying number (customer id.) normally used in the purchase of items at the retail store. The customer id. may be a check-cashing card number or other customer loyalty card number, or may be some other form of identification used to pay for purchases. Because the store can track the purchasing history of each customer who consistently uses the same customer id. when paying for the purchases, a customer who supplies this customer id. to the on-line system of the present invention may then receive more targeted incentives based on his or her prior purchasing history. For example, the customer may receive an incentive for his or her favorite brand of toothpaste, based on a prior purchase of the same toothpaste some weeks earlier. If the customer elects not to provide the customer id. to the on-line system, these more targeted incentives will not be available to that customer.

[0021] It will be appreciated from the foregoing summary that the present invention represents a significant advance in the field of retail marketing using computer networks. In particular, the system of the invention provides a highly secure incentive distribution scheme because each incentive or coupon may identify the retailer at which the coupon may be used, and also preferably identifies the customer to whom the coupon was issued. The invention also provides a variety of other planning aids to customers using computers before visiting a supermarket. These aids include the generation of a shopping list for the customer, the distribution of selected recipes, together with ingredients lists and incentives, if any are available for the ingredients, and the distribution of product information or rebate forms. Other aspects and

advantages of the invention will become apparent from the following more detailed description, taken in conjunction with the accompanying drawings.

5 BRIEF DESCRIPTION OF THE DRAWINGS

[0022]

- FIGURE 1 is an overall process flow diagram of the system of the invention;
 FIG. 2 is a flow diagram of the log-in process used by a customer in accordance with the invention;
 FIG. 3 is a flow diagram of a restriction process used to restrict access to only authorized customers in a selected geographic region;
 FIG. 4 is a flow diagram of the main menu process of the system of the invention;
 FIG. 5 is a flow diagram of an offer browser process used in the system of the present invention;
 FIG. 6 is a flow diagram of a supermarket specials process used in the system of the present invention;
 FIG. 7 is a flow diagram of a recipe center process used in the system of the present invention;
 FIG. 8 is a flow diagram of a shopping list maker used in the system of the present invention;
 FIG. 9 is a flow diagram of a registration process used in the system of the present invention;
 FIG. 10 is a flow diagram of a final list process used in the system of the present invention;
 FIG. 11 is a pictorial view of a coupon for purposes of explaining how its components are merged dynamically for transmission to the customer;
 FIG. 12 is a flow diagram of the process of dynamic coupon creation used in the system of the present invention;
 FIG. 13 is a simplified block diagram depicting an alternate embodiment of the invention in which coupons are not distributed directly to customers;
 FIG. 14 is a simplified block diagram depicting another aspect of the invention, in which customer id. information volunteered by the on-line customer is used to generate more focused purchase incentives to be transmitted to the customer;
 FIG. 15 is a simplified block diagram depicting another aspect of the invention, whereby targeted and untargeted incentives are delivered to consumers by electronic mail;
 FIG. 16 is a simplified block diagram showing how data is gathered and updated for us in a consumer personal page;
 FIG. 17 is a simplified block diagram showing how a consumer personal page is automatically updated based on consumer purchasing activity; and
 FIG. 18 is a simplified block diagram depicting another alternate embodiment of the invention, in which a token is generated instead of a coupon, and the token is presented at a store in order to obtain a cash discount voucher.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0023] As shown in the drawings for purposes of illustration, the present invention pertains to a system for the distribution of shopper incentives and related shopping aids by means of a computer network to which customers have access at remote locations, such as in their homes.

Overview:

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[0024] FIG. 1 provides an overview flow diagram of the system of the invention. The system provides a unique communication network connecting consumers, indicated at block 10, retailers 12 and manufacturers 14. The consumers 10 log in and fulfill log-in requirements as indicated in block 16, and may then proceed to a main menu 20. From the main menu 20, a consumer may elect to go to an offer browser index page 18, which is linked to an offer browser 22. The offer browser 22 has associated sub-offers 24 available for consumer selection. Basically, the offer browser 22 receives offer data from the manufacturers 14 on a periodic basis, and displays the offers to consumers 10 who have logged in to the system. The offer and sub-offer structure permits consumers to select coupon offers, rebate offers, or information offers made available by the manufacturers. Selected offers are accumulated in a session record maintained for the time that each consumer is logged in to the system.

[0025] From the main menu 20, a consumer may also elect to go to a shopping list 26, under which store departments 28 provide lists of products for sale. The consumer may mark any items for entry on a shopping list to be printed later. The consumer may also elect to go from the main menu to a recipe index 30, which provides a linkage to previously stored recipes 32. In response to consumer selection of a recipe 32, the ingredients are automatically entered into the consumer's final shopping list, and any coupon offers or rebate offers associated with any of the ingredients are also automatically included in the final list to be transmitted to the consumer. A consumer may also elect to go from the main menu 20 to a supermarket special index 34, which has linkages to previously stored supermarket special offers 36. These have been entered and periodically updated by the retailers 12. Again, any selected items are automatically entered into the consumer's final shopping list.

[0026] When the consumer has finished selecting from the offer browser 22, the shopping list index 26, the recipe index 30 and the supermarket special index 34, he or she may elect to go to the final list 40. Prior to generation of the final list, the consumer will be required to enter a valid Internet address for electronic mail (E-mail), and to select a supermarket in his or her area, as indicated in block 42. Once the final list has been generated, the consumer may elect to leave the system through an exit page 44, which may have links to other

areas of the system. As also shown in FIG. 1, the consumer may also elect to go to a help page 46, which is accessible from any of the other principal blocks shown in the overview, as indicated by the connections to the main menu 20 and the log-in block 16. The functions described briefly in this overview should become clearer as each is discussed below in more detail.

The Log-in Page:

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[0027] On first accessing the system of the invention, the consumer encounters the Log-in page, which provides a starting point for each online session. The Log-in page contains a log-in process, as indicated in the flowchart of FIG. 2. A log-in page is presented to the consumer, as indicated in block 80, and the consumer completes an on-screen form and presses (clicks on) a "submit" key, as indicated in block 82. There may be other on-screen buttons available to the user, such as a "help" button 84 and a button 86 to select that E-Mail be sent to the system administrator. At Log-in time, the user is required to enter his or her ZIP code or other postal code, since many of the features of the system are location-dependent. If the postal code entry is determined to be invalid, in block 90, a rejection message is posted on the user's screen, as indicated at 92. If the entry is valid, a restriction process 94 may be performed, then the session is started, as indicated at 96, and the system proceeds to present the main menu to the user, as indicated in block 98.

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[0028] The restriction process 94 is shown in more detail in FIG. 3. The ZIP or postal code is passed to the process from a calling program, such as the Log-in program, as indicated in block 100. Then the ZIP or postal code is checked for validity, in block 102. Initially, the system may not be in operation in all postal codes, and this validity check restricts access to those consumers with appropriate postal codes. Moreover, not all ZIP or postal codes are necessarily valid or in use. In addition, the ZIP code determines what offers are transmitted to consumers, based on the market areas they reside in. If the postal code is invalid, a rejection message is transmitted to the user, as indicated in block 104.

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[0029] Optionally, the restriction process also checks the Internet address of the user, referred to as the Internet Protocol (or IP) address, as indicated in block 106. If the IP address is not acceptable, a rejection notice is transmitted to the user, as indicated in block 108. If the IP address is found to be valid, return is made to the calling Log-in program to complete the restriction process, as indicated at 110. Another possibility occurs when there is some doubt, but not certainty, concerning the user's IP address. A trace route is optionally performed on the user's IP address, as indicated in block 112, and the validity is checked once more, as indicated in block 114. If the IP address is this time found to be valid, an IP address table of valid addresses is updated, as shown in block 116, before exiting the process. If the

block 114 finds the IP address still invalid, an advisory message is sent to the system administrator, as indicated in block 118, before updating the valid IP address table and exiting the process.

[0030] A "help" page is accessible from the Log-in page and from other pages in the system. Its purpose is provide a high-level flowchart to the user, together with associated narrative information, to explain the major functions of the system and how they interrelate in a single session. The "help" page also provides the benefits of the system and functions as an enticement for the user to register.

The Main Menu:

[0031] As one might expect, the main menu provides the user with a central page from which all the major functions of the system can be reached. As shown in FIG. 4, the main menu is entered from the Log-in page, indicated at block 120, and provides a main menu and offer index, as indicated in block 122. The main menu screen gives the user at least eight different functions that are selected by pointing and clicking on an appropriate button or icon. The functions include:

- Select the recipe center (block 124),
- Select supermarket specials (block 126),
- Select help (block 128),
- Select E-Mail to the system administrator (block 130),
- Select the shopping list maker (block 132),
- Select an offer from an index of offers (block 134),
- Select going to an offer browser (block 136), and
- Select final list processing (block 138).

[0032] The final list is a composite of all prior activities of the user during the current online session. In the offer browser, the user may select an offer from a matrix of offers (the offer index), and the selected offer is then added to the final list for this session. In the shopping list maker, the user selects specific items that he or she intends to purchase during the next store visit. These items are added to the final list. The recipe center allows the user to select one or more recipes from an offered list. The ingredients needed in the recipes are also added to the final list. The supermarket specials button allows the user to choose any of a number of advertised specials and add these to the final list.

Offer Browser:

[0033] The offer browser contains advertised offers submitted by product manufacturers. As shown in FIG. 5, the offer browser is entered from the main menu, via block 140, and opens with an individual offer page 142. The offer page contains details of an offer, along with a number of control buttons. The user may select prior or next offers, as indicated in block 144, or may select a

coupon based on the offer, as indicated in block 145, the coupon being added to the session record as indicated in block 147. Each offer may have a number of sub-offer options associated with it, including:

- 5 • adding the coupon to the final list,
- entering a sweepstakes competition automatically,
- displaying a rebate form, for completion and adding to the final list,
- 10 • displaying information about the product involved in the offer,
- mailing information about the product involved in the offer,
- playing an audio message related to the offer,
- 15 • mailing a sample of the product involved in the offer,
- displaying a recipe associated with the product involved in the offer, and
- presenting a questionnaire associated with the offer.

20 [0034] Offers can be "clipped" by the user only once per session, and validity checking ensures that each offer enters the session file, and final list, only once. FIG. 5 shows the principal functions that may be performed 25 in the offer browser, including: a help button 46', a view supermarket specials button 146, a view recipe center button 148, a view shopping list maker 150, a return to main menu button 152, and a button 154 to select a sample, mailed information or sweepstakes entry. The latter button initiates generation of a report containing the customer information and is sent to a fulfillment center, as indicated in blocks 156 and 158. Other options shown 30 in FIG. 5 include a link to recipe button 160, actuation of which results in creation of a recipe page (block 162), which is sent to the user or customer (block 164), and 35 also results in the recipe and coupons being added the final list (block 166). Another function is to link to the display of additional offer or product information, as indicated in blocks 168 and 170. Also shown is a link to obtain a rebate (blocks 172, 174 and 176), a link to select audio information (blocks 178 and 180) and a link 40 to the final list 181. Finally, there is a link 182 to a questionnaire that the consumer may complete, and an associated link 183 to an order offer.

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Supermarket Specials:

[0035] Another main menu function is to provide linkage to a supermarket specials page. Information for this page is provided by participating supermarket retailers and is limited by supermarket shopping area determined from the user's ZIP or postal code.

[0036] As shown in FIG. 6, a user of this feature first enters a supermarket special directory page 184, i.e. a directory of supermarkets in his or her shopping area. The user selects a supermarket, as indicated in block 185, and then may select items included in the current list of special offers by the selected supermarket, as in-

dicated in block 186. Each selected item is added to the session record and, subsequently, to the final list, as shown in block 188, and then the process returns to the main menu, as indicated in block 190. If the user elects not to take advantage of any of the supermarket specials, the user has the option to exit to other functions in the system, as shown in blocks 192, 194, 196, 198 and 199.

Recipe Center:

[0037] FIG. 7 shows the recipe center functions, which are displayed when the user enters the recipe center from the main menu or elsewhere, as indicated in block 200. The user in this page may elect to go to the recipe page (block 202) and clip a recipe from the displayed list of recipes (block 204). A selected ("clipped") recipe will be added to the information in the session record (block 206), for eventual inclusion in the final list, and then recipe center process is terminated by a return to the main menu (block 208). If no recipe is selected, the user may exit the recipe center as shown in blocks 210, 212, 214 and 216. Each recipe page section contains recipe ingredients and instructions, as well as coupon offers for various ingredients or recipe mixes. When the recipe is added to the final list, the associated coupons are also included.

Shopping List Maker:

[0038] The shopping list maker is entered, as indicated in block 220, from the main menu, or from any of various other screens. The user may select a store department (block 222), such as meat, produce, and so forth, then select from displayed items sold in that department, as indicated in block 224. The selected items are added to the session record, as indicated in block 226, before a return is made to the main menu, as indicated in block 228. Items may be selected for adding to the shopping list whether or not any of the items is subject to a manufacturers' or supermarket special offer. Optionally, manufacturer and retailer offers may be displayed in the appropriate sections to alert the user of specials available.

Household Registration:

[0039] A more specific registration procedure is provided immediately before the consumer enters the phase of final list generation. At log-in, the only information needed to go forward with the session was the consumer's ZIP or postal code. At this stage, before generation of the final list, registration requires a valid E-mail address. Optional information includes a first name and a last name of the consumer, a street address, city and state, and selected demographic information including the number of persons in the household, age categories of persons in the household, and number of pets, if any,

in the household. The primary purpose of the registration is customer identification, with a secondary purpose of demographic analysis.

[0040] FIG. 9 shows the registration process, which 5 is similar to the Log-in process of FIG. 2, and identical reference numeral are used where appropriate. During the registration process, the customer's E-mail address is verified for correct syntax, as shown in block 90. The first time the customer registers, the E-mail address is 10 used to create a unique household identification (id.), as shown in blocks 230 and 232. Subsequently, the user's household id. is used to reference prior registration information. The next steps are to record or update the consumer information, as indicated in block 234, and to 15 proceed to final list generation, as indicated in block 236.

Final List Generation:

[0041] FIG. 10 shows the principal functions performed when the user enters the final list generation phase, as indicated in block 250. The system builds the final list, as indicated in block 252, using the session record that has accumulated items selected by the user, as indicated in block 254. The final list is displayed to 25 the user, as indicated in block 256, and the user may then exit to the main menu (block 258) or go to an exit page (block 260), which may have links to other shopper savings opportunities. The final list generation phase also contains hyperlinks to sites established by individual 30 manufacturers and retailers. Finally, the system displays a "thank you" message and ends the session, as indicated in block 262.

[0042] When the user enters the final list generation phase, he or she will have to make a selection from a 35 list of supermarkets in the immediate shopping area. All the coupons printed will be specific to this selected supermarket, and invalid everywhere else.

[0043] The final list will contain everything that the consumer has selected during the current session, including shopping list items, supermarket specials, a 40 shopping list of recipe ingredients of selected recipes, including any special offers, and may also provide a recipe page giving the ingredients and preparation instructions for each selected recipe, rebate forms complete 45 with customer information, a summary of offers selected, and coupons in redeemable format. Information encoded onto each coupon will include the product code, the consumer's household id., an offer code, an expiration date, a serial number, a valid supermarket id., and 50 the consumer's name.

Dynamic Coupon Creation:

[0044] Unlike coupons printed for distribution by mail 55 or printed on an in-store printer, the coupons distributed over the Internet in accordance with the present invention, are created in real time to include information provided by the consumer at his or her remote location.

Thus each coupon image is generated dynamically to include this consumer-supplied information, which is required principally for security reasons. As explained earlier, each coupon contains not just a product code and coupon conditions, but also the consumer's name or household id., the retailer id. where the coupon must be redeemed, and a coupon sequence number for added security. Merging all this information into a graphical image in a real time mode for transmission over the computer network posed additional challenges for implementation of the invention.

[0045] More specifically, the input information that has to be incorporated into each coupon includes:

- The consumer's name and the location coordinates for location on the coupon,
- The coupon expiration date and its coordinates,
- The logo of the system and its coordinates,
- The product offer icon and its coordinates,
- The amount of savings and its coordinates,
- The terms for receiving savings amount and its coordinates
- The legal text and its coordinates,
- The redemption text and its coordinates,
- The coupon sequence number and its coordinates,
- The bar code numbers and their coordinates,
- The supermarket designation and its coordinates, and
- The coupon size and border parameters.

[0046] FIG. 11 shows a typical coupon format and FIG. 12 summarizes the functions performed in creating the coupon dynamically. Block 270 lists the input items obtained from the consumer: the consumer name, the coupon selection and the supermarket selection. Block 272 lists the input items that are obtained from the system: the consumer's household id., the coupon expiration date, the system logo, the product image, the savings amount image, the terms of the offer, the legal text, the redemption text, the coupon sequence number, the bar code numbers and the coupon border and sizes. Of these, only a few are static, i.e. unchanging from coupon to coupon, such as the system logo and the coupon border and size. The rest are dynamic and dependent on the specific offer selected by the consumer, or dependent on information supplied by the consumer. The expiration date is dynamic in the sense that it is keyed to the coupon issue or print date.

[0047] The first step in the coupon creation process, indicated in block 274, is to create the coupon background from the coupon size coordinates, to create an image that will be the background of the coupon. The image is created using the standard format known as the graphics image format (GIF). An important feature of the invention is that the printed coupons preferably include a complex background pattern to reduce the potential of fraudulent creation or modification of the coupons. Several intricate background patterns are stored

in advance for use in this step of the coupon creation process. The background pattern for current use is selected from the pre-stored patterns on a regular or random basis. The coupon offer information shown in FIG.

- 5 11 is printed over the background to render unauthorized creation, modification or duplication more difficult. Basically, the creation of the background includes the steps of first creating a "canvas" for the coupon, such as a one-color background on which the other image elements will be overlaid; then evaluating the coupon components (the retailer, product, text messages and so forth); then selecting a background image based on random or preset parameters; and applying the background image to the canvas. Selection of the background pattern may be based, in part, on the content of the coupon. For example, different background images may be used for different manufacturers, different products, or even different consumers. The background image is a complex pattern of relatively light intensity, so as not to interfere with scanned bar codes on the coupon. The pattern may contain textual characters, or a repetitive design, or may be of a variable and seemingly random nature, as depicted in FIG. 11. The complexity and varied nature of the background image makes unauthorized alteration or creation of coupons extremely difficult, because alteration of any of the coupon components, such as price, bar code or text, will also visibly disturb the background image. Although counterfeit coupons may not always be detected in a retail store, the presence of the background pattern makes it likely that they will be detected at some later stage of coupon redemption.
- 10 [0048] Next, in block 276, the coupon border is created using the border parameters to outline the background with a border of selected width and color. Next, as indicated in block 278, the graphics images in the inputs are placed on the background using the location images provided in the hypertext markup language (HTML).
- 15 [0049] Next, as indicated in block 280, the text input items, including the bar codes, are placed on the background image using the location parameters provided in the HTML format. Each text character, including ASCII characters and the bar-code numerical quantities, is converted to a graphical image using internally stored font files. Finally, the composite image of the coupon obtained from the preceding steps is merged with other output data and is output to the consumer's computer, as indicated in block 282.
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Transmitting Incentives without Physical Coupons:

- 55 [0050] An alternative arrangement for distributing purchasing incentives over the Internet is illustrated in FIG. 13. This figure shows an incentive distribution server computer 300 and a user's personal computer 302 connected together through a computer network, indicated by the network cloud 304. The server 300 has an asso-

ciated storage device 306 on which are stored multiple advertisements and promotions. The system as described thus far operates in much the same way as the system described above with reference to FIGS. 1-11. A user 308 logs on to the server 300 through the network 304 and selects from a variety of offers stored on the storage device 306 by manufacturers and retailers. However, instead of transmitting the coupons to the user computer 302, the server 300 functions in accordance with one of the following options:

- (a) The server 300 transmits purchase incentive data to an in-store server 310 in the supermarket selected by the user 308, which gives the user an appropriate discount automatically when he or she presents items for checkout and a point-of-sale checkout scanner 312, with appropriate identification recognized by the in-store server 310. Promotions or discounts are given to the customer, as indicated at 314. The server 300 may also send an advisory message to the customer to confirm the existence of the promotion.
- (b) The server 300 transmits the image of a token 316 of some kind to the user's computer 302. The token defines the coupon offer, preferably in coded form, such as in bar codes, but is not recognizable as a coupon. The token may, for example, be an encoded confirmation number. The user 308 presents the token 316 at the store he or she has selected, and receives the appropriate discount or promotion automatically.

Generation and Delivery of Focused Incentives:

[0051] The invention may be further enhanced by employing individual purchase histories of individual customers, as depicted in FIG. 14. The shopping behavior of customers is routinely tracked in connection with the generation of in-store incentives in the form of discount coupons printed as the customer pays for his or her purchases, as shown in blocks 400 and 402. Each customer's purchasing behavior is tracked only if the customer provides some form of unique identification during the purchase transactions, such as a check-cashing card, a credit card, a magnetically encoded check, or other form of identification. The purchase of any of a number of selected items can then be associated with a specific customer id., as indicated in block 404, and a system administrator maintains a database of customer purchase histories, as indicated in block 406. When the customer visits the store, a focused incentive may be printed based on a selected event in the customer's past shopping behavior, as indicated in block 408. In accordance with this aspect of the present invention, a customer who has logged in to the system (block 410) is asked to supply the customer id. used for in-store purchases (block 412). The customer id. may be a check-cashing card number, or other form of identification that allows

the system to access the customer's purchasing history, and then select a purchasing incentive based on some aspect of the customer's prior shopping history, as indicated in block 414. This incentive is transmitted to the customer, as indicated in block 416, in the form of an Internet message, for retrieval when the customer next accesses the Web site or checks for electronic mail (E-mail). The incentive message informs the customer that one or more specific offers are available and may be received at the checkout stand when the prerequisite products are purchased. Alternatively, a paper coupon may be transmitted to the customer's computer site and printed for later presentation in the store.

[0052] Customers who volunteer the necessary linkage in the form of their customer id. may be rewarded in some manner. The customer id. may be requested only once and then used for all subsequent sessions in which the customer logs in to the system. Once the linkage is established, the consumer purchase history data or targeted incentives needed to support this capability of the invention are periodically transferred from the shopper purchase history system to the on-line system of the present invention.

Delivery of Incentives by E-mail:

[0053] As shown in FIG. 15, the system of the invention also has the capability to deliver targeted or untargeted incentives to consumers through their online E-mail addresses on the Internet or another computer network. Retail stores, indicated by block 500, gather purchase data and either the retailers or an independent system administrator accumulates the consumer purchase history in a database, indicated at 502. The database 502 is developed as a result of consumers being uniquely identified on each visit to the store, by use of a frequent shopper card, a credit card or some other form of identification.

[0054] Targeted purchase incentives are generated from the consumer purchase history database 502, as indicated in block 504. The system administrator also maintains a consumer database 506, which identifies consumers by their E-mail addresses. Alternatively, the consumer database 506 may be integrated with the consumer purchase history database 502. The consumer database 506 receives data primarily from the system administrator's Web site, indicated at block 508, which, in turn, receives a consumer's E-mail address from each consumer's computer, indicated at 510. The consumer database 506 may also receive E-mail addresses from independent consumer E-mail address lists, indicated in block 512.

[0055] Using E-mail address information from the consumer database 506 and targeted incentive information based on the consumer's purchase history, from database 502, the system of the invention formats an E-mail message to the consumer, as indicated in block 514, and transmits it to the consumer's computer 510

through the consumers E-mail "post office," as indicated in block 516. The purchasing incentives are delivered to the consumer by electronic mail for subsequent printing of a coupon, or simply in the form of a token of some kind to be taken to the store. This approach allows producing targeted, time phased incentives based on the consumer's actual buying patterns and preferences, and delivering them in the home prior to the consumer's shopping trip.

[0056] The same delivery mechanism can also be used to deliver untargeted or less targeted incentives from manufacturers, indicated at 518. The manufacturers may, for example, generate weekly offers, as shown in block 520, which the system delivers to selected consumers. Selection of consumers may be based on a customer profile or on demographic information maintained by the system administrator and selected by the manufacturer. For example, the manufacturer may identify the type of household it would like to target and the incentive would be delivered to designated consumers in the consumer database 506 who meet the profile qualifications.

[0057] Another aspect of the invention permits the delivery via E-mail of general messages or incentives to consumers who meet selected non-demographic criteria, such as those who have not recently visited the Web site, or those who have not selected or redeemed online purchase incentives during a recent selected period. In such cases, a special promotion might be delivered to the consumer to encourage more active participation. Untargeted messages or notices can also be broadcast to large numbers of consumers to encourage them to visit a specific retail store, or to purchase a specific manufacturer's product, or to visit the Web site.

Personal Page:

[0058] Another feature of the invention is the more direct targeting of incentives using a "personal page" for each consumer who wants one established. As indicated in FIG. 16, when the consumer has logged in to the system and is about to sign off, through the final list generation or checkout phase 600, he or she may be asked to complete a marketing questionnaire 602. The questionnaire requests selected personal or demographic information, which the consumer may elect to volunteer once the benefits of establishing a "personal" Web page have been explained. If the consumer elects not to provide the information, the system provides a normal exit and log out procedure. However, if the required information is provided, the system sets up a personal page for the consumer, as indicated in block 604, and establishes a personal database 606, also for the individual consumer. The personal page displays a screen of information that is consumer-specific in many respects but will, of course, contain some data that is supplied to all consumers who have personal pages. The page is preferably personalized with the consumer's name and may

also contain the shopping list, if any, already generated by the consumer in the current online session. Significantly, the personal page will also contain offers and incentives targeted to the specific consumer, as further explained below. When the personal page is first set up, the system generates an E-mail message to the consumer to advise him or her of the address for gaining access to the personal page, as indicated at 608.

[0059] Subsequently, when the consumer visits the personal page, as indicated at 610, he or she has an opportunity to select personal preferences as to the content of the page, as indicated in block 612. On each visit to the personal page, the consumer may be asked additional questions concerning demographics, personal purchase preferences, and so forth, as indicated at 614, the responses being used to update the personal database 606, as indicated by line 616. From the personal page, the consumer may elect to follow a link 618 back to the system main menu 620.

[0060] All of the steps depicted in FIG. 16 pertain to setting up the personal page for a consumer and gathering information from the consumer for establishing and updating the personal page. When visiting the personal page, the consumer may select any of the incentives or offers displayed, and these will be incorporated into the consumer order in the same manner as described above.

[0061] FIG. 17 depicts how the personal database 606 for each consumer is automatically updated based on consumer purchases and on changes to available incentives. The functions shown are typically performed periodically, such as every day or week, but can also be performed in real time. The consumer purchase history 502, which was discussed with reference to FIG. 15, is generated and updated from various sources pertaining to the shopping activities of all identifiable consumers. In-store loyalty programs based on past purchasing activity are one source of such data. Any online shopping activity is another source. Data from the consumer purchase history database 502 and from a database 622 of available incentives are joined together and used to generate incentives to be displayed on each consumer's personal page. The personal page contents are updated, as indicated in block 624, the personal database 606 is updated to reflect these changes, and the consumer is notified by E-mail, as indicated in block 626, that the personal page has been updated. The consumer can then go to the personal page and view the updated personal page.

[0062] Use of the personal page permits manufacturers and retailers to focus incentives on specific consumers, based on demographic data and prior purchasing data in the consumer's personal database 606. Consumers who have consented to have the personal page established, are much more likely to respond favorably to incentive offers in their areas of interest, and manufacturers are more likely to provide higher value offers when they are targeted to specific consumers of interest

to the manufacturers.

"Token and Voucher" Instead of Coupon:

[0063] A potential difficulty with distributing coupons through a computer network is that manufacturers and retailers may perceive such a system as being more prone to fraud than conventional coupon distribution methods. The concern, of course, is that users may alter the content of coupon images (e.g., the coupon value), or print a coupon image repeatedly, or compose a fraudulent coupon from scratch. Printing coupons with a complex background pattern, as discussed above, renders unauthorized coupon modification or creation more difficult, but a potential for fraud still exists. Generating a "token" instead of coupon, as described above with reference to FIG. 13, also reduces the risk of fraud. Another technique similar to this is depicted in FIG. 18. A token 316 is generated by the user's computer 302 after interaction with the distribution server 300. The user chooses from incentive offers as described above, but instead of a coupon the computer 302 generates the token 316.

[0064] The token 316 includes coded information, e.g., bar-coded information, establishing that the user visited the network site and selected one or more promoted items. Although the token is described in this specification as being in printed form, including bar-coded information, clearly other forms of the token may be preferred as different technologies develop. For example, the token may be encoded onto a user's identification card, using either magnetic stripe recording or "smart card" technology. For this aspect of the invention, the physical form of the token is of no consequence, since it is used only to establish that the user visited the computer network site and selected one or more promoted items. At about the same time that the token is generated, the user also receives a shopping list that identifies the promoted items that were selected during the site visit, as well as any other selected items. Although the token is not a coupon and has no value *per se*, it is a trigger mechanism that the user/consumer can present at a qualified retail store, to receive a voucher for a cumulative cash discount based on the promoted items purchased by the consumer.

[0065] When the user 308 takes the token to the selected store and makes purchases 630, the purchased items and the token are all scanned by the point-of-sale checkout scanner 312 and a voucher 632 is generated, based on the user's purchase of qualifying items. Each purchase in the user's order that matches weekly offers that have been predefined in the advertisements and promotions database 306 and have been selected by the user, are listed on the voucher 632. The voucher 632 provides a cumulative cash discount to the user (either immediately or on a subsequent store visit, no matter which items are purchased in the subsequent visit). The voucher also contains a bar-coded price look-up (PLU) code, which requires the store checker to enter a "price,"

i.e. the total voucher amount, in order to process the voucher and apply the discount to the user's order.

[0066] The token and voucher program provides advantages for all parties to each transaction. First, for manufacturers there is increased security for promotions introduced by computer networks such as the Internet. Instead of printing potentially reproducible monochrome coupons that are effectively redeemable for cash, the user's home computer generates a token that has to be taken to a store at which the qualifying products must be purchased by user before a cash voucher is generated. Since the token system ensures that the discounted products are purchased, the manufacturer pays only for positive results for each incentive offered. Moreover, the system avoids the inherent negative connotations of coupons.

[0067] Similarly, for the retailer, handling and redemption problems associated with black and white coupons generated by computer users are eliminated. The retailer also benefits because, one version of the system requires the user to return to the store to present the voucher. Consumers who are also Internet subscribers benefit because the system should allow for the distribution of more incentives, and incentives of higher value, over the Internet. The system also reduces the consumer paperwork because multiple coupons do not have to be clipped, printed and taken to the store. Only a single token is needed to make the required purchases and obtain a voucher for a cumulative cash discount, redeemable either immediately or at the next store or chain visit.

Conclusion:

[0068] It will be appreciated from the foregoing that the present invention represents a significant advance over other systems for distributing purchasing incentives and other shopping aids via computer network. In particular, the system and method of the invention provide for incentive distribution in such a way that the opportunities for fraudulent generation or use of coupons is minimized, since each coupon uniquely identifies the consumer to whom it was issued and the retail store or chain in which it can be redeemed. The invention also uses a novel technique for dynamically creating coupon images for transmission over a computer network. In an alternative embodiment of the invention, physical coupons are not printed at all, but coupon data are either transmitted directly to the retail store, or is sent to the consumer in the form of a token instead of a coupon. In addition to the transmission of purchasing incentives over a computer network, the present invention also provides a medium for transmitting other consumer planning aids, such as shopping list selections, recipe selections, rebate offers, and product information, over the network. In a further extension of the invention, if the customer provides an identification number used in payment for in-store purchases, more focused incentives

can be transmitted to the customer based on his or her prior shopping history. It will also be appreciated that, although a limited number embodiments of the invention have been described in detail for purposes of illustration, various modifications may be made without departing from the scope of the invention. Accordingly, the invention should not be limited except as by the appended claims.

Claims

1. A computer implemented method for distributing purchasing incentives to retail customers through a computer network (304), said method comprising the steps of (1) receiving at a server computer (300) identity data from a client computer (302) at a customer's site, said method characterized by the steps of:

transmitting identification of a plurality of purchase incentive offers from said server computer (300) over said computer network (304) to said client computer (302); transmitting incentive offer selection data from said client computer (302) over said computer network (304) to said server computer (300), said incentive offer selection data including a designation of a retailer; generating at said server computer (300) data defining a purchasing incentive containing in encoded form an identity of said retailer designated by said incentive offer selection data and a customer identity corresponding to said identity data; and transmitting said data defining said purchasing incentive from said server computer (300) over said computer network (304) to said client computer (302).

2. The method of claim 1 further comprising the steps of:

transmitting from said server computer (300) a first list of products available for purchase at said retailer from said server computer (300) to said client computer (302); transmitting product selection data from said client computer (302) to said server computer (300), said product selection data designating products from said first list of products; and transmitting a shopping list based on said product selection data from said server computer (300) to said client computer (302).

3. The method of claim 2 wherein said shopping list indicates products on said shopping list for which purchase incentives exist.

4. The method of claim 1 wherein said step of transmitting said plurality of incentive offers includes transmitting incentive offers only from specific product manufacturers from said server computer over said computer network to said client computer.
5. The method of claim 1 wherein said step of transmitting said plurality of incentive offers includes transmitting incentive offers only from specific retailers from said server computer (300) over said computer network (304) to said client computer (302).
6. The method of claim 1 wherein said step of generating said data defining said purchasing incentive includes the steps of:
 - 20 forming a composite graphical image displaying in human readable form the terms and conditions of the incentive by merging (1) said incentive offer selection data and (2) non-incentive offer selection data into said composite graphical image; and
 - 25 transmitting said composite graphical incentive image from said server computer (300) over said computer network (304) to said client computer (302).
7. The method of claim 6 further comprising the steps of:
 - 30 generating at said server computer (300) a complex graphical background pattern for said composite graphical incentive image; and
 - 35 merging said complex graphical background pattern into said composite graphical image.
8. The method of claim 1 wherein said step of transmitting said data defining said purchasing incentive further includes the steps of:
 - 40 transmitting said data defining said purchasing incentive as an advisory message from said server computer (300) over said computer network (304) to said client computer (302); and
 - 45 transmitting from said server computer (300) terms of said purchasing incentive offer to a computer (310) of said retailer.
9. The method of claim 1 wherein said step of transmitting said data defining said purchasing incentive further includes the steps of:
 - 50 transmitting said data defining said purchasing incentive as an incentive token from said server computer (300) over said computer network (304) to said client computer (302), said incentive token corresponding to said purchasing in-
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- centive; and
transmitting from said server computer (300) terms of said purchasing incentive to a computer (310) of said retailer.
10. The method of claim 9 wherein said token comprises a bar code.
11. The method of claim 1 further comprising the steps of:

receiving at said server computer (300) region data from said client computer; and

wherein said purchasing incentive is exercisable in a region corresponding to said region data.
12. The method of claim 1 wherein said plurality of purchase incentive offers include at least one incentive offer originating from a product manufacturer and at least one incentive offer originating from a product retailer.
13. The method of claim 1 further comprising the step of:

associating said identity data with prior purchase data of at least one prior purchase; determining incentive offer selection data to transmit from said server computer (300) to said client computer (302) based on said prior purchase data.
14. The method of claim 1 further including the steps of:

transmitting a prompt for region data from said server computer (300) over said computer network (304) to said client computer (302); in response to said prompt, transmitting region data identifying a selected region from said client computer (302) over said computer network (304) to said server computer (300); and transmitting said purchase incentive from said server computer (300) to said client computer (304), wherein said purchasing incentive is offered by a retailer in said selected region.
15. A method of claim 14 wherein said selected region incentive offer defines an offer only available at stores in said selected region.
16. A method of claim 14 wherein said selected region corresponds to a postal code region.
17. The method of claim 1 further including the steps of:

receiving at said server computer (300) selection data indicating at least one recipe from a
- 5 list of recipes;
transmitting from said server computer to said client computer (302) a shopping list that includes ingredients for said at least one recipe and at least one said purchasing incentive for purchase of a product corresponding to at least one of said ingredients.
- 10 18. The method of claim 17 further comprising the step of transmitting said list of recipes from said server computer (300) to said client computer (302).
- 15 19. The method of claim 18 further comprising the step of determining said at least one purchasing incentive based at least in part upon region data provided from said client computer.
- 20 20. The method according to claim 17 further comprising the step of determining said at least one purchasing incentive based at least in part upon prior shopping history data stored in association with an identity provided from said client computer.
- 25 21. The method according to claim 17 further comprising the step of determining said at least one purchasing incentive based at least in part upon prior online usage history data stored in association with an identity provided from said client computer.
- 30 22. The method of claim 1 wherein the step of generating at said server computer (300) said purchasing incentive for said consumer is based at least in part upon purchase history data associated with an identification of said consumer stored in a purchase history database (502); and the step of:

transmitting said purchasing incentive from said server computer (300) over said computer network (304) to an email address associated with an identification of said consumer and stored in a consumer database (506).
- 35 23. The method of claim 22 further comprising the steps of:

registering said consumer when said client computer connects to said server computer by obtaining registration information including an email address from said client computer; and transferring said registration information including said email address to a consumer data database.
- 40 45 24. The method of claim 22 wherein said step of generating said purchasing incentive comprises depending said purchasing incentive upon demographic data stored in said consumer database (506) in association with an identification of said

- consumer.
25. The method of claim 22 wherein said step of generating said purchasing incentive comprises depending said purchasing incentive upon a frequency of use of purchasing incentives associated with said identification of said consumer.
26. The method of claim 22 wherein said step of generating said purchasing incentive comprises depending said purchasing incentive upon a frequency of usage of an online system comprising said server computer, said usage associated with an identification of said consumer.
27. The method of claim 22 wherein said step of generating said purchasing incentive comprises depending said purchasing incentive upon a whether said server computer (300) received a signal containing said identification in a selected prior time period.
28. The method of claim 22 wherein said step of generating said purchasing incentive comprises depending said purchasing incentive upon whether said identification is associated with redemption of an online provided purchase incentive during a selected prior time period.
29. The method of claim 1 further comprising the steps of transmitting a prompt for personal information from said server computer (300) to said client computer (302) over said computer network (304), transmitting personal information data from said client computer (302) to said server computer (300) over said computer network (304) in response to said prompt, and
- generating page data defining a web page based upon said personal information data; and
- assigning a web page address to said web page based upon said personal information data.
30. A method of claim 29 further comprising the step of communicating said web page address to said client computer (302).
31. A method of claim 29 further comprising the step of transmitting data defining said personal web page to said client computer (302).
32. A method of claim 29 wherein said personal information comprises an identification code.
33. A method of claim 29 wherein said personal information comprises an identification code and said page address depends upon said identification code.
34. A method of claim 29 wherein said personal information comprises an identification code and further comprising the step of storing said personal information data in a personal information database (606).
35. The method of claim 29 further comprising transmitting an advisory messages concerning said updated personal page from said server computer (300) to said client computer (302) over said computer network (304).
36. The method of claim 29 wherein said personal information data comprises an identification code and further comprising the steps of:
- storing in a purchase history database (502) data identifying products purchased in association with said identification code; and
- determining said purchase incentive depending at least in part on said data stored in said purchase history database (502) in association with said identification code.
37. The method of claim 36 wherein said step of determining said purchase incentive comprises depending said purchase incentive upon page data stored in said personal page database (606).
38. The method of claim 36 further comprising the step displaying said purchase incentive in said web page having said web page address.
39. The method of claim 36 wherein said step of determining said purchase incentive comprises selecting said purchase incentive from incentive offers provided by a product manufacturer.
40. The method of claim 36 wherein said step of determining said purchase incentive comprises determining said purchase incentive on a basis of demographic data stored in the personal page database.
41. The method of claim 36 wherein said step of determining purchase incentive comprises determining said purchase incentive on a basis a frequency of usage of purchase incentives.
42. The method of claim 36 wherein said step of determining said purchase incentive comprises determining said purchase incentive on a basis a frequency of usage of said personal page.
43. The method of claim 1 further comprising the steps of:

- determining retail store purchased products purchased at a point of sale terminal in a retail store in association with a unique identity code and storing data identifying said store purchased products in association with said unique identity code in a database (502), determining network purchased products purchased in association with said unique identity code via communication over said computer network (304) in association with said unique identity code; and storing data identifying said network purchased products in association with said unique identity code in said database (502).
44. The method of claim 43 wherein said computer network comprises the Internet.
45. The method of claim 43 further comprising the steps of:
- transmitting a signal over the Internet to an address for an identify code for a consumer notifying said consumer of an incentive defined by incentive data; and
- transmitting a signal over the Internet to an address for a retail store notifying said retail store of said incentive and said identity code.
46. The method of claim 43 further comprising the step of transmitting a signal over the Internet to an address for a consumer containing data defining a coupon so that the coupon can be printed by the consumer by a printer controlled at said address.
47. A system for distributing purchasing incentives to retail customers through a computer network (304) including a server computer (300), and a client computer (302) at a customer's site said system characterized by:
- means for transmitting identification of a plurality of purchase incentive offers from said server computer (300) over said computer network (304) to said client computer (302);
- means for transmitting incentive offer selection data from said client computer (302) over said computer network (304) to said server computer (300), said incentive offer selection data including a designation of a retailer;
- means for generating at said server computer (300) data defining a purchasing incentive containing in encoded form an identity of said retailer designated by said incentive offer selection data and a customer identity corresponding to said identity data; and
- means for transmitting said data defining said purchasing incentive from said server computer (300) over said computer network (304) to said client computer (302).
48. The system of claim 47 further comprising:
- means for transmitting from said server computer (300) a first list of products available for purchase at said retailer from said server computer (300) to said client computer (302);
- means for transmitting product selection data from said client computer (302) to said server computer (300), said product selection data designating products from said first list of products; and
- means for transmitting a shopping list based on said product selection data from said server computer (300) to said client computer (302).
49. The system of claim 48 wherein said shopping list indicates products on said shopping list for which purchase incentives exist.
50. The system of claim 47 wherein said means for transmitting said plurality of incentive offers includes transmitting incentive offers only from specific product manufacturers from said server computer over said computer network to said client computer.
51. The system of claim 47 wherein said means for transmitting said plurality of incentive offers includes transmitting incentive offers only from specific retailers from said server computer (300) over said computer network (304) to said client computer (302).
52. The system of claim 47 wherein said means for generating said data defining said purchasing incentive includes:
- means for forming a composite graphical image displaying in human readable form the terms and conditions of the incentive by merging (1) said incentive offer selection data and (2) non-incentive offer selection data into said composite graphical image; and
- means for transmitting said composite graphical incentive image from said server computer (300) over said computer network (304) to said client computer (302).
53. The system of claim 52 further comprising:
- means for generating at said server computer (300) a complex graphical background pattern for said composite graphical incentive image; and
- means for merging said complex graphical

- background pattern into said composite graphical image.
54. The system of claim 47 wherein said means for transmitting said data defining said purchasing incentive further includes:
- means for transmitting said data defining said purchasing incentive as an advisory message from said server computer (300) over said computer network (304) to said client computer (302); and
means for transmitting from said server computer (300) terms of said purchasing incentive offer to a computer (310) of said retailer. 10 15
55. The system of claim 47 wherein said means for transmitting said data defining said purchasing incentive further includes:
- means for transmitting data defining said purchasing incentive as an incentive token from said server computer (300) over said computer network (304) to said client computer (302), said incentive token corresponding to said purchasing incentive; and
means for transmitting from said server computer (300) terms of said purchasing incentive to a computer (310) of said retailer. 20 30
56. The system of claim 55 wherein said token comprises a bar code.
57. The system of claim 47 further comprising:
- means for receiving at said server computer (300) region data from said client computer; and
wherein said purchasing incentive is exercisable in a region corresponding to said region data. 35 40
58. The system of claim 47 wherein said plurality of purchase incentive offer include at least one incentive offer originating from a product manufacturer and at least one incentive offer originating from a product retailer. 45
59. The system of claim 47 further comprising:
- means for associating said identity data with prior purchase data of at least one prior purchase;
means for determining incentive offer selection data to transmit from said server computer (300) to said client computer (302) based on said prior purchase data. 50 55
60. A system as claimed in claim 47 further comprising:
- means for transmitting a prompt for region data from said server computer (300) over said computer network (304) to said client computer (302);
in response to said prompt, means for transmitting region data identifying a selected region from said client computer (302) over said computer network (304) to said server computer (300); and
means for transmitting said purchase incentive from said server computer (300) to said client computer (304), wherein said purchasing incentive is offered by a retailer in said selected region. 60 65
61. A system of claim 60 wherein said selected region incentive offer defines an offer only available at stores in said selected region. 20
62. A system of claim 60 wherein said selected region corresponds to a postal code region.
63. A system as claimed in claim 47 further comprising
- means for receiving at said server computer (300) selection data indicating at least one recipe from a list of recipes;
means for transmitting from said server computer to said client computer (302) a shopping list that includes ingredients for said at least one recipe and at least one said purchasing incentive for purchase of a product corresponding to at least one of said ingredients. 30 35
64. The system of claim 63 further comprising means for transmitting said list of recipes from said server computer (300) to said client computer (302). 40
65. The system of claim 63 further comprising means for determining said at least one purchasing incentive based at least in part upon region data provided from said client computer. 45
66. The system of claim 63 further comprising means for determining said at least one purchasing incentive based at least in part upon prior shopping history data stored in association with an identity provided from said client computer. 50
67. The system of claim 63 further comprising means for determining said at least one purchasing incentive based at least in part upon prior on line usage history data stored in association with an identity provided from said client computer. 55
68. A system as claimed in claim 47 wherein said pur-

- chasing incentive is based at least in part upon purchase history data associated with an identification of said consumer stored in a purchase history database (502); and
- means for transmitting transmits said purchasing incentive from said server computer (300) over said computer network (304) to an email address associated with an identification of said consumer stored in a consumer database (506).
- 69.** The system of claim 68 further comprising:
- means for registering said consumer when said client computer connects to said server computer by obtaining registration information including an email address from said client computer; and
- means for transferring said registration information including said email address to a consumer data database (506).
- 70.** The system of claim 68 wherein said means for generating said purchasing incentive comprises means for depending said purchasing incentive upon demographic data stored in said consumer database (502) in association with an identification of said consumer.
- 71.** The system of claim 68 wherein said means for generating said purchasing incentive comprises means for depending said purchasing incentive upon a frequency of use of purchasing incentives associated with said identification of said consumer.
- 72.** The system of claim 68 wherein said means for generating said purchasing incentive comprises means for depending said purchasing incentive upon a frequency of usage of an online system comprising said server computer, said usage associated with an identification of said consumer.
- 73.** The system of claim 68 wherein said means for generating said purchasing incentive comprises mean for depending said purchasing incentive upon a whether said server computer (300) received a signal containing said identification in a selected prior time period.
- 74.** The system of claim 68 wherein said means for generating said purchasing incentive comprises means for depending said purchasing incentive upon whether said identification is associated with redemption of an online provided purchase incentive during a selected prior time period.
- 75.** A system as claimed in claim 47 further comprising means for transmitting a prompt for personal information from said server computer (300) to said client computer (302) over said computer network (304), means for transmitting personal information data from said client computer (302) to said server computer (300) over said computer network (304) in response to said prompt,
- means for generating page data defining a web page based upon said personal information data; and
- means for assigning a web page address to said web page based upon said personal information data.
- 76.** A system of claim 75 further comprising means for communicating said web page address to said client computer (302).
- 77.** A system of claim 75 further comprising means for transmitting data defining said personal web page to said client computer (302).
- 78.** A system of claim 75 wherein said personal information comprises an identification code.
- 79.** A system of claim 75 wherein said personal information comprises an identification code and said page address depends upon said identification code.
- 80.** A system of claim 75 wherein said personal information comprises an identification code and further comprising means for storing said personal information data in a personal information database (606).
- 81.** The system of claim 75 further comprising means for transmitting an advisory messages concerning said updated personal page from said server computer (300) to said client computer (302) over said computer network (304).
- 82.** The system of claim 75 wherein said personal information data comprises an identification code and further comprising:
- means for storing in said purchase history database (502) data identifying products purchased in association with said identification code; and
- means for determining a purchase incentive depending at least in part on said data stored in said purchase history database (502) in association with said identification code.
- 83.** The system of claim 82 wherein means for determining said purchase incentive comprises means for depending said purchase incentive upon page data stored in said personal page database (606).

- | | | | |
|-----|---|----|---|
| 84. | The system of claim 82 further comprising means for displaying said purchase incentive in said web page having said web page address. | | dress for a consumer containing data defining a coupon so that the coupon can be printed by the consumer by a printer controlled at said address. |
| 85. | The system of claim 82 wherein means for determining said purchase incentive comprises means for selecting said purchase incentive from incentive offers provided by a product manufacturer. | 5 | |
| 86. | The system of claim 82 wherein said means for determining said purchase incentive comprises means for determining said purchase incentive on a basis of demographic data stored in the personal page database. | 10 | |
| 87. | The system of claim 82 wherein said means for determining purchase incentive comprises means for determining said purchase incentive on a basis a frequency of usage of purchase incentives. | 15 | Übertragen der Identifikation mehrerer Verkaufsanreiz-Angebote von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302), |
| 88. | The system of claim 82 wherein said means for determining said purchase incentive comprises means for determining said purchase incentive on a basis a frequency of usage of said personal page. | 20 | Übertragen von Daten für eine Auswahl des Anreizangebots von dem Kundencomputer (302) über das Computernetzwerk (304) an den Servercomputer (300), wobei die Daten für die Auswahl des Anreizangebots eine Bestimmung eines Einzelhändlers einschließen; |
| 89. | A system as claimed in claim 47 further comprising:

means for determining retail store purchased products purchased at a point of sale terminal in a retail store in association with a unique identity code and storing data identifying said store purchased products in association with said unique identity code in a database (502),
means for determining network purchased products purchased in association with said unique identity code via communication over said computer network (304) in association with said unique identity code; and
means for storing data identifying said network purchased products in association with said unique identify code in said database (502). | 25 | Erzeugen von Daten bei dem Servercomputer (300), die einen Verkaufsanreiz definieren, mit einer in codierter Form vorliegenden Identifikation des Einzelhändlers, der durch die Daten für die Auswahl des Anreizangebots bestimmt ist, und einer Kundenidentifikation gemäß den Identifikationsdaten und
Übertragen der Daten, die den Verkaufsanreiz definieren, von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302). |
| 90. | The system of claim 89 wherein said computer network comprises the Internet. | 30 | |
| 91. | The system of claim 89 further comprising:

means for transmitting a signal over the Internet to an address for an identify code for a consumer notifying said consumer of an incentive defined by incentive data; and
means for transmitting a signal over the Internet to an address for a retail store notifying said retail store of said incentive and said identity code. | 35 | 2. Verfahren gemäß Anspruch 1, ferner umfassend die folgenden Schritte: |
| 92. | The system of claim 89 further comprising means for transmitting a signal over the Internet to an ad- | 40 | Übertragen von dem Servercomputer (300) einer ersten Liste von Produkten, die bei dem Einzelhändler zum Verkauf zur Verfügung stehen, von dem Servercomputer (300) an den Kundencomputer (302);
Übertragen von Produktauswahldaten von dem Kundencomputer (302) an den Servercomputer (300), wobei die Produktauswahldaten Produkte der ersten Produktliste bestimmen, und
Übertragen einer Einkaufsliste gemäß den Produktauswahldaten von dem Servercomputer (300) an den Kundencomputer (302). |
| | | 45 | 3. Verfahren gemäß Anspruch 2, bei dem die Einkaufsliste die Produkte auf der Einkaufsliste bezeichnet, für welche Verkaufsanreize existieren. |
| | | 50 | |
| | | 55 | |

4. Verfahren gemäß Anspruch 1, wobei bei dem Schritt des Übertragens mehrerer Anreizangebote von dem Servercomputer über das Computernetzwerk an den Kundencomputer nur Anreizangebote von speziellen Produktherstellern übertragen werden, 5
- Übertragen der Daten, die den Verkaufsanreiz definieren, als einen Anreizgutschein von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302), wobei der Anreizgutschein dem Verkaufsanreiz entspricht, und
- Obertragen der Bedingungen des Verkaufsanreizes von dem Servercomputer (300) an einen Computer (310) des Einzelhändlers.
5. Verfahren gemäß Anspruch 1, wobei bei dem Schritt des Übertragens mehrerer Anreizangebote von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302) nur Anreizangebote von speziellen Einzelhändlern übertragen werden, 10
10. Verfahren gemäß Anspruch 9, bei dem der Gutschein einen Strichcode enthält
6. Verfahren gemäß Anspruch 1, bei dem der Schritt des Erzeugens der Daten, welche die Verkaufsanreize definieren, folgende Schritte beinhaltet: 15
- Bilden einer gegliederten grafischen Darstellung, die in für Menschenlesbarer Form die Bedingungen und Voraussetzungen des Anreizes dadurch darstellt, dass die Daten für die Auswahl des Anreizangebots und die Auswahldaten für das Angebot, das kein Verkaufsanreiz darstellt, in der gegliederten grafischen Darstellung verbunden werden (1), und
- Übertragen der gegliederten grafischen Anreizdarstellung von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302). 20
11. Verfahren gemäß Anspruch 1, bei dem ferner Gebietsdaten von dem Kundencomputer bei dem Servercomputer (300) empfangen werden, und bei dem der Verkaufsanreiz in einem Gebiet ausübbar ist, das den Gebietsdaten entspricht.
7. Verfahren gemäß Anspruch 6, ferner umfassend die folgenden Schritte: 25
12. Verfahren gemäß Anspruch 1, bei dem die mehreren Verkaufsanreiz-Angebote zumindest ein Anreizangebot, das von einem Produkthersteller stammt und zumindest ein Verkaufsanreiz-Angebot, das von einem Produkteinzelhändler stammt, umfassen.
13. Verfahren gemäß Anspruch 1, ferner umfassend die folgenden Schritte: 30
- Zuordnen der Identifikationsdaten mit früheren Verkaufsdaten von zumindest einem früheren Verkauf;
- Bestimmen der Daten für die Auswahl der Anreizangebote auf der Grundlage der Daten zu früheren Verkäufen, um sie von dem Servercomputer (300) an den Kundencomputer (302) zu übertragen.
8. Verfahren gemäß Anspruch 1, bei dem der Schritt des Übertragens der Daten, die den Verkaufsanreiz definieren, ferner folgende Schritte einschließt: 35
- Erzeugen eines komplexen grafischen Hintergrundmusters für die gegliederte grafische Anreizdarstellung bei dem Servercomputer (300) und
- Verbinden des komplexen grafischen Hintergrundmusters mit der gegliederten grafischen Darstellung. 40
14. Verfahren gemäß Anspruch 1, ferner mit den folgenden Schritten:
- Übertragen einer Eingabeaufforderung für Gebietsdaten von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302);
- als Antwort auf die Eingabeaufforderung, Übertragen von Gebietsdaten, welche ein ausgewähltes Gebiet identifizieren, von dem Kundencomputer (302) über das Computernetzwerk (304) zu dem Servercomputer (300) und
- Übertragen des Verkaufsanreizes von dem Servercomputer (300) an den Kundencomputer (304), wobei der Verkaufsanreiz von einem Einzelhändler in dem ausgewählten Gebiet angeboten wird. 45
- Übertragen der Daten, die den Verkaufsanreiz definieren, als eine ratgebende Nachricht von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302) und
- Übertragen der Bedingungen des Verkaufsanreiz-Angebots von dem Servercomputer (300) an einen Computer (310) des Einzelhändlers. 50
9. Verfahren gemäß Anspruch 1, bei dem der Schritt des Übertragens der Daten, die den Verkaufsanreiz definieren, ferner folgende Schritte beinhaltet: 55
15. Verfahren gemäß Anspruch 14, bei dem das Anreizangebot für das ausgewählte Gebiet ein Angebot

- definiert, das nur in Geschäften in dem ausgewählten Gebiet verfügbar ist.
16. Verfahren gemäß Anspruch 14, bei dem das ausgewählte Gebiet einem Postleitzahlengebiet entspricht 5
17. Verfahren gemäß Anspruch 1, ferner mit den folgenden Schritten:
- Empfangen von Auswahldaten bei dem Servercomputer (300), die zumindest ein Rezept aus einer Liste von Rezepten bezeichnen;
Übertragen einer Einkaufsliste von dem Servercomputer an den Kundencomputer (302), welche die Zutaten zumindest eines Rezeptes enthält, und zumindest eines Verkaufsanreizes für den Verkauf eines Produktes, das zumindest einem der Zutaten entspricht 15
18. Verfahren gemäß Anspruch 17, bei dem ferner die Rezeptliste von dem Servercomputer (300) an den Kundencomputer (302) übertragen wird. 20
19. Verfahren gemäß Anspruch 18, bei dem ferner zumindest ein Verkaufsanreiz zumindest teilweise aufgrund der Gebietsdaten bestimmt wird, die von dem Kundencomputer bereitgestellt werden. 25
20. Verfahren gemäß Anspruch 17, bei dem ferner zumindest ein Verkaufsanreiz zumindest teilweise aufgrund von den Daten zu der früheren Einkaufsgeschichte bestimmt wird, welche in Verbindung mit einer Identität gespeichert sind, die von dem Kundencomputer bereitgestellt wird. 30
21. Verfahren gemäß Anspruch 17, bei dem ferner zumindest ein Verkaufsanreiz zumindest teilweise aufgrund von den Daten zu der früheren Online-Benutzungsgeschichte bestimmt wird, die in Verbindung mit einer Identifikation gespeichert sind, die von dem Kundencomputer bereitgestellt wird. 35
22. Verfahren gemäß Anspruch 1, bei dem der Schritt des Erzeugens des Verkaufsanreizes für den Kunden bei dem Servercomputer (300) zumindest teilweise aufgrund der Daten vorgenommen wird, die einer Identifikation des Kunden zugeordnet sind und die in einer Verkaufsgeschichte-Datenbank (502) gespeichert sind, und der Schritt des Übertragens des Verkaufsanreizes von dem Servercomputer (300) über das Computernetzwerk (304) an eine E-Mail-Adresse erfolgt, die einer Identifikation des Kunden zugeordnet ist und die in einer Kundendatenbank (506) gespeichert ist 40
23. Verfahren gemäß Anspruch 22, mit folgenden weiteren Schritten:
- Seitendaten erzeugt werden, die eine Webseite aufgrund der persönlichen Informationsdaten definieren und
eine Webseiten-Adresse der Webseite aufgrund der persönlichen Informationsdaten zugewiesen wird. 45
24. Verfahren gemäß Anspruch 22, bei dem der Schritt des Erzeugens des Verkaufsanreizes abhängig ist von demografischen Daten, die in der Kundendatenbank (506) gespeichert sind, die zu einer Identifikation der Kunden gehört. 50
25. Verfahren gemäß Anspruch 22, bei dem der Schritt des Erzeugens des Verkaufsanreizes von der Häufigkeit der Benutzung der Verkaufsanreize abhängt, die zu der Identifikation des Kunden gehört. 55
26. Verfahren gemäß Anspruch 22, bei dem der Schritt des Erzeugens des Verkaufsanreizes von der Häufigkeit der Benutzung eines Online-Systems mit einem Servercomputer abhängt, wobei die Benutzung der Identifikation des Kunden zugeordnet ist
27. Verfahren gemäß Anspruch 22, bei dem der Schritt des Erzeugens des Verkaufsanreizes davon abhängt, ob der Servercomputer (300) ein Signal empfangen hat, das die Identifikation in einem ausgewählten früheren Zeitintervall enthält
28. Verfahren gemäß Anspruch 22, bei dem der Schritt des Erzeugens des Verkaufsanreizes davon abhängt, ob die Identifikation zu der Einlösung eines online bereitgestellten Verkaufsanreizes während eines ausgewählten früheren Zeitintervalls gehört.
29. Verfahren gemäß Anspruch 1, bei dem ferner eine Eingabeaufforderung für persönliche Informationen von dem Servercomputer (300) an den Kundencomputer (302) über das Computernetzwerk (304) übertragen wird, persönliche Informationsdaten von dem Kundencomputer (302) an den Servercomputer (300) über das Computernetzwerk (304) als Antwort auf die Eingabeaufforderung übertragen werden und
- Registrieren des Kunden, wenn der Kundencomputer mit dem Servercomputer verbunden wird, indem Registrierungsinformation einschließlich einer E-Mail-Adresse von dem Kundencomputer erhalten wird und
Übertragen der Registrierungsinformation mit der E-Mail-Adresse an eine Kundendaten-Datenbank. 30
30. Verfahren gemäß Anspruch 29, bei dem ferner die Webseiten-Adresse dem Kundencomputer (302) kommuniziert wird.

31. Verfahren gemäß Anspruch 29, bei dem ferner Daten übertragen werden, welche die persönliche Webseite des Kundencomputers (302) definieren.
32. Verfahren gemäß Anspruch 29, bei dem die persönliche Information einen Identifikationscode enthält.
33. Verfahren gemäß Anspruch 29, bei dem die persönliche Information einen Identifikationscode und eine Seitenadresse in Abhängigkeit von dem Identifikationscode enthält.
34. Verfahren gemäß Anspruch 29, bei dem die persönliche Information einen Identifikationscode enthält und ferner die persönlichen Informationsdaten in einer Datenbank (606) für persönliche Informationen gespeichert werden.
35. Verfahren gemäß Anspruch 29, bei dem ferner eine ratgebende Nachricht von dem Servercomputer (300) an den Kundencomputer (302) über das Computernetzwerk (304) übertragen wird, welche die aktualisierte persönliche Seite betrifft.
36. Verfahren gemäß Anspruch 29, bei dem die persönlichen Informationsdaten einen Identifikationscode umfassen und dass das Verfahren folgende Schritte aufweist:
- Speichern von Daten in einer Datenbank (502) für die Verkaufsgeschichte, welche die Produkte identifizieren, die in Verbindung mit dem Identifikationscode gekauft wurden, und Bestimmen des Verkaufsanreizes zumindest teilweise in Abhängigkeit von den Daten, welche in der Datenbank (502) für die Verkaufsgeschichte in Verbindung mit dem Identifikationscode gespeichert sind.
37. Verfahren gemäß Anspruch 36, bei dem der Verkaufsanreiz abhängig von den Seitendaten bestimmt wird, die in der Datenbank (606) für die persönlichen Seiten gespeichert sind.
38. Verfahren gemäß Anspruch 36, bei dem ferner der Verkaufsanreiz auf der Webseite angezeigt wird, welche die Webseiten-Adresse hat
39. Verfahren gemäß Anspruch 36, wobei beim Bestimmen des Verkaufsanreizes der Verkaufsanreiz von Anreiz-Angeboten ausgewählt wird, welche von einem Produkthersteller bereitgestellt werden.
40. Verfahren gemäß Anspruch 38, wobei beim Bestimmen des Verkaufsanreizes der Verkaufsanreiz aufgrund von demografischen Daten bestimmt wird, die in der Datenbank für persönliche Seiten gespeichert sind.
41. Verfahren gemäß Anspruch 36, wobei beim Bestimmen des Verkaufsanreizes der Verkaufsanreiz aufgrund der Benutzungsfrequenz der Verkaufsanreize bestimmt wird.
42. Verfahren gemäß Anspruch 36, wobei beim Bestimmen des Verkaufsanreizes der Verkaufsanreiz aufgrund der Nutzungshäufigkeit der persönlichen Seite bestimmt wird.
43. Verfahren gemäß Anspruch 1, ferner umfassend die folgenden Schritte:
- Bestimmen von Produkten, die in einem Einzelhandelsgeschäft bei einer dortigen Verkaufseinrichtung in Verbindung mit einem eindeutigen Identifikationscode verkauft wurden, und Speichern der Daten in einer Datenbank (502), welche die Produkte identifizieren, die in dem Geschäft verkauft wurden, und zwar in Verbindung mit dem eindeutigen Identifikationscode, Bestimmen der Produkte, die über ein Netzwerk in Verbindung mit dem eindeutigen Identifikationscode und in Verbindung mit dem eindeutigen Identifikationscode über eine Computernetzwerkverbindung (304) gekauft wurden, und Speichern der Daten in der Datenbank (502), welche die Produkte identifizieren, welche über das Netzwerk gekauft wurden, in Verbindung mit dem eindeutigen Identifikationscode.
44. Verfahren gemäß Anspruch 43, bei dem das Computernetzwerk das Internet umfasst.
45. Verfahren gemäß Anspruch 43, ferner umfassend die folgenden Schritte:
- Übertragen eines Signals über das Internet zu einer Adresse für einen Identifikationscode für einen Kunden, um diesem einen Anreiz mitzuteilen, der durch Anreizdaten definiert ist, und Übertragen eines Signals über das Internet an eine Adresse für ein Einzelhandelsgeschäft, um diesem von dem Anreiz und dem Identifikationscode zu unterrichten.
46. Verfahren gemäß Anspruch 43, bei dem ferner ein Signal über das Internet an eine Adresse für einen Verbraucher übertragen wird, das Daten enthält, die einen Coupon definieren, so dass der Coupon von dem Verbraucher über einen Drucker, der von dieser Adresse gesteuert wird, ausgedruckt werden kann.
47. System zum Verteilen von Verkaufsanreizen für Einzelhandelskunden über ein Computernetzwerk (304), wobei das System einen Servercomputer

(300), einen Kundencomputer (302) auf einer Kundenseite und ein Netzwerk (304) aufweist und **gekennzeichnet ist durch:**

Mittel zum Übertragen einer Identifikation mehrerer Verkaufsanreiz-Angebote von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302);
 Mittel zum Übertragen von Daten für eine Auswahl des Anreizangebotes von dem Kundencomputer (302) über das Computernetzwerk (304) an den Servercomputer (300), wobei die Daten zur Auswahl des Anreizangebots eine Bestimmung eines Einzelhändlers einschließen;
 Mittel zum Erzeugen von Daten bei dem Servercomputer (300), welche einen Verkaufsanreiz definieren, mit einer in codierter Form vorliegenden Identifikation des Einzelhändlers, welcher **durch** die Daten für die Auswahl des Anreizangebots bestimmt ist, und einer Kundenidentifikation gemäß den Identifikationsdaten und
 Mittel zum Übertragen der Daten, die den Verkaufsanreiz definieren, von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302).

48. System gemäß Anspruch 47, ferner mit:

Mitteln zum Übertragen von einem Servercomputer (300) einer ersten Liste von Produkten, die zum Verkauf bei dem Einzelhändler zur Verfügung stehen, von dem Servercomputer (300) an den Kundencomputer (302);
 Mitteln zum Übertragen von Produktauswahl-daten von dem Kundencomputer (302) an den Servercomputer (300), wobei die Produktauswahldaten Produkte der ersten Produktliste bestimmen, und
 Mitteln zum Übertragen einer Einkaufsliste gemäß den Produktauswahldaten von dem Servercomputer (300) an den Kundencomputer (302).

49. System gemäß Anspruch 48, wobei die Einkaufsliste Produkte der Einkaufsliste bezeichnet, für die Verkaufsanreize existieren.

50. System gemäß Anspruch 47, wobei die Mittel zum Übertragen mehrerer Anreizangebote, das Übertragen der Anreizangebote nur für spezielle Produkthersteller von dem Servercomputer über das Computernetzwerk an den Kundencomputer beinhalten.

51. System gemäß Anspruch 47, wobei die Mittel zum Übertragen mehrerer Anreizangebote das Übertra-

gen von Anreizangeboten nur für spezielle Einzelhändler von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302) beinhalten.

52. System gemäß Anspruch 47, wobei die Mittel zum Erzeugen der Daten, welche die Verkaufsanreize definieren, umfassen:

Mittel zum Bilden einer gegliederten grafischen Darstellung, welche in für Menschen lesbarer Form die Bedingungen und Voraussetzungen des Anreizes darstellen, in dem (1) die Daten zur Auswahl des Anreizangebots und (2) die Auswahldaten, für die kein Anreizangebot besteht, in die gegliederte grafische Darstellung eingebunden werden, und
 Mittel zum Übertragen der gegliederten grafischen Anreizdarstellung von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302).

53. System gemäß Anspruch 52, ferner mit:

Mitteln zum Erzeugen eines komplexen grafischen Hintergrundmusters für die gegliederte grafische Anreizdarstellung bei dem Servercomputer (300) und

Mitteln zum Verbinden des komplexen grafischen Hintergrundmusters mit der gegliederten grafischen Darstellung.

54. System gemäß Anspruch 47, wobei die Mittel zum Übertragen der Daten, welche den Verkaufsanreiz definieren, ferner beinhalten:

Mittel zum Übertragen der Daten, welche den Verkaufsanreiz definieren, als eine ratgebende Nachricht von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302) und

Mittel zum Übertragen der Bedingungen des Verkaufsanreiz-Angebots von dem Servercomputer (300) an den Computer (310) des Einzelhändlers.

55. System gemäß Anspruch 47, wobei die Mittel zum Übertragen der Daten, welche den Verkaufsanreiz definieren, ferner beinhalten:

Mittel zum Übertragen der Daten, welche den Verkaufsanreiz definieren als einen Anreizgutschein von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302), wobei der Anreizgutschein dem Verkaufsanreiz entspricht, und

Mittel zum Übertragen der Bedingungen des Verkaufsanreizes von dem Servercomputer

(300) an einen Computer (310) des Einzelhändlers.		63. System gemäß Anspruch 47, ferner mit:
56. System gemäß Anspruch 55, wobei der Gutschein einen Strichcode umfasst.	5	Mitteln zum Empfangen von Auswahl Daten bei dem Servercomputer (300), welche zumindest ein Rezept einer Rezeptliste bezeichnen; Mitteln zum Übertragen einer Einkaufsliste von dem Servercomputer an den Kundencomputer (302), welche Zutaten für zumindest ein Rezept enthält, und zumindest eines Verkaufsanreizes zum Verkauf eines Produktes, das zumindest einer Zutat der Zutaten entspricht.
57. System gemäß Anspruch 47, ferner mit:		64. System gemäß Anspruch 63, ferner mit Mitteln zum Übertragen der Rezeptliste von dem Servercomputer (300) an den Kundencomputer (302).
Mitteln zum Empfangen von Gebietsdaten von dem Kundencomputer bei dem Servercomputer (300) und	10	65. System gemäß Anspruch 63, ferner mit Mitteln zum Bestimmen des zumindest einen Verkaufsanreizes zumindest teilweise aufgrund der Gebietsdaten, die von dem Kundencomputer bereitgestellt werden.
wobei der Verkaufsanreiz in einem Gebiet ausübbar ist, das den Gebietsdaten entspricht.		66. System gemäß Anspruch 63, ferner mit Mitteln zum Bestimmen zumindest eines Verkaufsanreizes zumindest teilweise aufgrund von Daten der früheren Einkaufsgeschichte, welche zugehörig zu der Identität gespeichert ist, die von dem Kundencomputer bereitgestellt wird.
58. System gemäß Anspruch 47, wobei die mehreren Verkaufsanreiz-Angebote zumindest einen Verkaufsanreiz beinhalten, der von einem Produkthersteller stammt und zumindest einen Verkaufsanreiz der von einem Produkteinzelhändler stammt.	15 20	67. System gemäß Anspruch 63, ferner mit Mitteln zum Bestimmen zumindest eines Verkaufsanreizes zumindest teilweise aufgrund von Daten zu der früheren Online-Benutzungsgeschichte, die zugehörig zu der Identität gespeichert sind, welche von dem Kundencomputer bereitgestellt wird.
59. System gemäß Anspruch 47, ferner mit:		68. System gemäß Anspruch 47, wobei der Verkaufsanreiz zumindest teilweise aufgrund von Daten der Verkaufsgeschichte, die zu einer Identifikation des Verbrauchers gehören, die in einer Verkaufsgeschichte-Datenbank (502) gespeichert sind, erstellt wird, und mit Übertragungsmitteln, die den Verkaufsanreiz von dem Servercomputer (300) über das Computernetzwerk (304) an eine E-Mail-Adresse übertragen, die zu einer Identifikation des Verbrauchers gehört, der in einer Verbraucher-Datenbank (506) gespeichert ist.
Mitteln zum Zuordnen der Identifikationsdaten mit früheren Verkaufsdaten zumindest eines früheren Verkaufs;	25	69. System gemäß Anspruch 68, ferner mit:
Mitteln zum Bestimmen der Daten zur Auswahl des Anreizangebots gemäß den früheren Verkaufsdaten zum Übertragen von dem Servercomputer (300) an den Kundencomputer (302).	30	Mitteln zum Registrieren des Verbrauchers, wenn der Kundencomputer mit dem Servercomputer verbunden ist, und zwar dadurch, dass Registrierungsinformation einschließlich einer E-Mail-Adresse von den Kundencomputer erlangt wird, und Mitteln zum Übertragen der Registrierungsinformation einschließlich der E-Mail-Adresse an
60. System gemäß Anspruch 47, ferner mit:		
Mitteln zum Übertragen einer Eingabeaufforderung für Gebietsdaten von dem Servercomputer (300) über das Computernetzwerk (304) an den Kundencomputer (302);	35	
als Antwort auf die Eingabeaufforderung, Mitteln zum Übertragen von Gebietsdaten, welche ein ausgewähltes Gebiet identifizieren, von dem Kundencomputer (302) über das Computernetzwerk (304) an den Servercomputer (300) und	40	
Mitteln zum Übertragen des Verkaufsanreizes von dem Servercomputer (300) an den Kundencomputer (304), wobei der Verkaufsanreiz von einem Einzelhändler in dem ausgewählten Gebiet angeboten wird.	45	
61. System gemäß Anspruch 60, wobei das Anreizangebot des ausgewählten Gebiets ein Angebot definiert, das nur in Geschäften dieses ausgewählten Gebiets verfügbar ist.	50	
62. System gemäß Anspruch 60, wobei das ausgewählte Gebiet einem Postleitzahlengebiet entspricht.	55	

- eine Datenbank (506) für Verbraucherdaten.
70. System gemäß Anspruch 68, wobei die Mittel zum Erzeugen des Verkaufsanreizes Mittel umfassen, welche den Verkaufsanreiz in Abhängigkeit von demografischen Daten, die in der Verbraucherdatenbank (502) gespeichert sind, erstellen, die zu einer Identifikation des Verbrauchers gehören.
71. System gemäß Anspruch 68, wobei die Mittel zum Erzeugen des Verkaufsanreizes Mittel umfassen, welche den Verkaufsanreiz in Abhängigkeit von einer Benutzungshäufigkeit der Verkaufsanreize in Verbindung mit der Identifikation des Verbrauchers erstellen.
72. System gemäß Anspruch 68, wobei die Mittel zum Erzeugen des Verkaufsanreizes Mittel umfassen, welche den Verkaufsanreiz in Abhängigkeit von einer Benutzungshäufigkeit eines Online-Systems erstellen, welches den Servercomputer umfasst, wobei die Benutzung in Verbindung mit einer Identifikation des Verbrauchers erfolgte.
73. System gemäß Anspruch 68, wobei die Mittel zum Erzeugen des Verkaufsanreizes Mittel umfassen, die den Verkaufsanreiz in Abhängigkeit davon erstellen, ob der Servercomputer (300) ein Signal empfangen hat, welches die Identifikation in einem ausgewählten früheren Zeitintervall enthalten hat.
74. System gemäß Anspruch 68, wobei das Mittel zum Erzeugen des Verkaufsanreizes Mittel umfasst, welche den Verkaufsanreiz in Abhängigkeit davon erstellen, ob die Identifikation zu einer Einlösung eines online-bereitgestellten Verkaufsanreizes während eines ausgewählten früheren Zeitintervalls gehört.
75. System gemäß Anspruch 47, ferner mit Mitteln zum Übertragen einer Eingabeaufforderung für persönliche Informationen von dem Servercomputer (300) an den Kundencomputer (302) über das Computernetzwerk (304), Mitteln zum Übertragen persönlicher Informationsdaten von dem Kundencomputer (302) an den Servercomputer (300) über das Computernetzwerk (304) als Antwort auf die Eingabeaufforderung, Mitteln zum Erzeugen von Seitendaten, welche eine Webseite in Abhängigkeit von den persönlichen Informationsdaten definieren, und Mitteln zum Zuordnen einer Webseiten-Adresse zu der Webseite in Abhängigkeit von den persönlichen Informationsdaten.
76. System gemäß Anspruch 75, ferner mit Mitteln zum Kommunizieren der Webseiten-Adresse an den Kundencomputer (302).
77. System gemäß Anspruch 75, ferner mit Mitteln zum Übertragen von Daten an den Kundencomputer (302), welche die persönliche Webseite definieren.
78. System gemäß Anspruch 75, wobei die persönliche Information einen Identifikationscode enthält.
79. System gemäß Anspruch 75, wobei die persönliche Information einen Identifikationscode enthält und die Seitenadresse von dem Identifikationscode abhängt.
80. System gemäß Anspruch 75, wobei die persönliche Information einen Identifikationscode enthält und ferner mit Mitteln zum Speichern der persönlichen Informationsdaten in einer Datenbank (606) für persönliche Informationen.
81. System gemäß Anspruch 75, ferner mit Mitteln zum Übertragen einer ratgebenden Nachricht, welche die aktualisierte persönliche Seite betreffen, von dem Servercomputer (300) an den Kundencomputer (302) über das Computernetzwerk (304).
82. System gemäß Anspruch 75, wobei die persönlichen Informationsdaten einen Identifikationscode enthalten und ferner enthalten:
- Mittel zum Speichern von Daten in der Datenbank (502) zur Verkaufsgeschichte, welche die zu dem Identifikationscode zugehörigen gekauften Produkte identifizieren, und Mitteln zum Bestimmen eines Verkaufsanreizes zumindest teilweise in Abhängigkeit von den Daten, welche in der Datenbank (502) für die Verkaufsgeschichte gespeichert sind und die zu dem Identifikationscode gehören.
83. System gemäß Anspruch 82, wobei Mittel zum Bestimmen des Verkaufsanreizes Mittel enthalten, die den Verkaufsanreiz in Abhängigkeit von Seitendaten erstellen, die in der Datenbank (606) für persönliche Seiten gespeichert sind.
84. System gemäß Anspruch 82, ferner mit Mitteln zum Anzeigen des Verkaufsanreizes auf der Webseite, welche die Webseite-Adresse besitzt.
85. System gemäß Anspruch 82, wobei Mittel zum Bestimmen des Verkaufsanreizes Mittel umfassen zum Bestimmen des Verkaufsanreizes aus Anreizangeboten, die durch einen Produkthersteller bereitgestellt werden.
86. System gemäß Anspruch 82, wobei die Mittel zum Bestimmen des Verkaufsanreizes Mittel umfassen zum Bestimmen des Verkaufsanreizes aufgrund demografischer Daten, welche in der Datenbank für

persönliche Seiten gespeichert sind.

87. System gemäß Anspruch 82, wobei die Mittel zum Bestimmen des Verkaufsanreizes Mittel umfassen zum Bestimmen des Verkaufsanreizes aufgrund einer Benutzungshäufigkeit der Verkaufsanreize.

88. System gemäß Anspruch 82, wobei die Mittel zum Bestimmen des Verkaufsanreizes Mittel umfassen zum Bestimmen des Verkaufsanreizes aufgrund einer Benutzungshäufigkeit der persönlichen Seite.

89. System gemäß Anspruch 47, ferner mit:

Mitteln zum Bestimmen der von einem Einzelhandelsgeschäft verkauften Produkte, die bei einer Verkaufseinrichtung in einem Einzelhandelsgeschäft in Verbindung mit einem eindeutigen Identifikationscode verkauft werden, und Speichern der Daten, welche die in dem Geschäft verkauften Produkte identifizieren, und zwar in Verbindung mit dem eindeutigen Identifikationscode in einer Datenbank (502),
 Mitteln zum Bestimmen von Produkten, die über ein Netzwerk in Verbindung mit einem eindeutigen Identifikationscode über eine Computernetzwerkverbindung (304) in Verbindung mit dem eindeutigen Identifikationscode verkauft wurden, und
 Mitteln zum Speichern von Daten in der Datenbank (502), welche die Produkte identifizieren, die über das Netzwerk verkauft wurden, und zwar in Verbindung mit dem eindeutigen Identifikationscode.

90. System gemäß Anspruch 89, wobei das Computernetzwerk das Internet umfasst

91. System gemäß Anspruch 89, ferner mit:

Mitteln zum Übertragen eines Signals über das Internet an eine Adresse für einen Identifikationscode für einen Verbraucher, welches den Verbraucher von einem Anreiz unterrichtet, der durch Anreizdaten definiert ist, und
 Mitteln zum Übertragen eines Signals über das Internet an eine Adresse für ein Einzelhandelsgeschäft, welches das Einzelhandelsgeschäft von dem Anreiz und dem Identifikationscode unterrichtet.

92. System gemäß Anspruch 89, ferner mit Mitteln zum Übertragen eines Signals über das Internet an eine Adresse für einen Verbraucher, welches Daten enthält, die einen Coupon definieren, so dass der Coupon von dem Verbraucher durch einen durch die Adresse gesteuerten Drucker gedruckt werden kann.

Revendications

1. Procédé mis en oeuvre sur ordinateur pour distribuer des incitations d'achat à des clients de détail par l'intermédiaire d'un réseau informatique (304), ledit procédé comprenant les étapes consistant à (1) recevoir sur un ordinateur serveur (300) des données d'identité d'un ordinateur client (302) se trouvant chez le client, ledit procédé étant caractérisé par les étapes consistant à :

transmettre une identification d'une pluralité d'offres d'incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302) ;
 transmettre des données de sélection d'offres d'incitation depuis ledit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304) audit ordinateur serveur (300), lesdites données de sélection d'offres d'incitation contenant la désignation d'un détaillant ;
 générer sur ledit ordinateur serveur (300) des données définissant une incitation d'achat contenant sous forme codée une identité dudit détaillant désigné par lesdites données de sélection d'offres d'incitation et une identité de client correspondant auxdites données d'identité ; et transmettre lesdites données définissant ladite incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302).

2. Procédé selon la revendication 1, comprenant en outre les étapes consistant à :

transmettre depuis ledit ordinateur serveur (300) une première liste de produits disponibles pour l'achat chez ledit détaillant depuis ledit ordinateur serveur (300) audit ordinateur client (302) ;
 transmettre des données de sélection de produits dudit ordinateur client (302) audit ordinateur serveur (300), lesdites données de sélection de produits désignant des produits dans ladite première liste de produits ; et transmettre une liste d'achat ayant pour base lesdites données de sélection de produits depuis ledit ordinateur serveur (300) audit ordinateur client (302).

3. Procédé selon la revendication 2, dans lequel ladite liste d'achat indique des produits sur ladite liste d'achat pour lesquels il existe des incitations d'achat.

4. Procédé selon la revendication 1, dans lequel ladite étape de transmission de ladite pluralité d'offres

- d'incitation consiste à transmettre des offres d'incitation provenant uniquement de fabricants de produits spécifiques depuis ledit ordinateur serveur par l'intermédiaire dudit réseau informatique audit ordinateur client.
5. Procédé selon la revendication 1, dans lequel ladite étape de transmission de ladite pluralité d'offres d'incitation consiste à transmettre des offres d'incitation provenant uniquement de détaillants spécifiques depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302).
6. Procédé selon la revendication 1, dans lequel ladite étape consistant à générer lesdites données définissant ladite incitation d'achat comprend les étapes consistant à :
- former une image graphique composite affichant sous une forme lisible par l'être humain les modalités et les conditions de l'incitation par fusionnement (1) desdites données de sélection d'offres d'incitation et (2) de données de non-sélection d'offres d'incitation sous la forme de ladite image graphique composite ; et transmettre ladite image d'incitation graphique composite depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302).
7. Procédé selon la revendication 6, comprenant en outre les étapes consistant à :
- générer sur ledit ordinateur serveur (300) un motif complexe d'arrière-plan graphique pour ladite image d'incitation graphique composite ; et fusionner ledit motif complexe d'arrière-plan graphique dans ladite image graphique composite.
8. Procédé selon la revendication 1, dans lequel ladite étape de transmission desdites données définissant ladite incitation d'achat comprend en outre les étapes consistant à :
- transmettre lesdites données définissant ladite incitation d'achat sous la forme d'un message de recommandation depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302) ; et transmettre depuis ledit ordinateur serveur (300) les modalités de ladite offre d'incitation d'achat à un ordinateur (310) dudit détaillant.
9. Procédé selon la revendication 1, dans lequel ladite étape de transmission desdites données définissant ladite incitation d'achat comprend en outre les étapes consistant à :
- transmettre lesdites données définissant ladite incitation d'achat sous la forme d'un symbole d'incitation depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302), ledit symbole d'incitation correspondant à ladite incitation d'achat ; et transmettre depuis ledit ordinateur serveur (300) les modalités de ladite incitation d'achat à un ordinateur (310) dudit détaillant.
10. Procédé selon la revendication 9, dans lequel ledit symbole comprend un code à barres.
11. Procédé selon la revendication 1, comprenant en outre les étapes consistant à :
- recevoir sur ledit ordinateur serveur (300) des données régionales depuis ledit ordinateur client ; et dans lequel ladite incitation d'achat peut s'exercer dans une région correspondant auxdites données régionales.
12. Procédé selon la revendication 1, dans lequel ladite pluralité d'achats comprend au moins une offre d'incitation émanant d'un fabricant de produits et au moins une offre d'incitation émanant d'un détaillant de produits.
13. Procédé selon la revendication 1, comprenant en outre les étapes consistant à :
- associer lesdites données d'identité à des données d'achats antérieurs d'au moins un achat antérieur ; déterminer des données de sélection d'offres d'incitation à transmettre depuis ledit ordinateur serveur (300) audit ordinateur client (302) sur la base desdites données d'achats antérieurs.
14. Procédé selon la revendication 1, comprenant en outre les étapes consistant à :
- transmettre une invitation à fournir des données régionales depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302) ; en réponse à ladite invitation, transmettre des données régionales identifiant une région sélectionnée depuis ledit ordinateur client (302) par l'intermédiaire dudit réseau informatique

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| | (304) audit ordinateur serveur (300) ; et transmettre ladite incitation d'achat dudit ordinateur serveur (300) audit ordinateur client (304), ladite incitation d'achat étant offerte par un détaillant dans ladite région sélectionnée. | |
| 15. | Procédé selon la revendication 14, dans lequel ladite offre d'incitation régionale sélectionnée définit une offre qui n'est disponible que dans des magasins se trouvant dans ladite région sélectionnée. | 5 |
| 16. | Procédé selon la revendication 14, dans lequel ladite région sélectionnée correspond à une région de code postal. | 10 |
| 17. | Procédé selon la revendication 1, comprenant en outre les étapes consistant à : | 15 |
| | recevoir sur ledit ordinateur serveur (300) des données de sélection indiquant au moins une recette parmi une liste de recettes ; transmettre depuis ledit ordinateur serveur audit ordinateur client (302) une liste d'achat qui contient des ingrédients pour ladite au moins une recette et au moins ladite une incitation d'achat pour l'achat d'un produit correspondant à au moins l'un desdits ingrédients. | 20 |
| 18. | Procédé selon la revendication 17, comprenant en outre l'étape consistant à transmettre ladite liste de recettes depuis ledit ordinateur serveur (300) audit ordinateur client (302). | 25 |
| 19. | Procédé selon la revendication 18, comprenant en outre l'étape consistant à déterminer ladite au moins une incitation d'achat sur la base d'au moins une partie de données régionales fournies par ledit ordinateur client. | 30 |
| 20. | Procédé selon la revendication 17, comprenant en outre l'étape consistant à déterminer ladite au moins une incitation d'achat au moins en partie sur la base de données d'historique d'achats antérieurs stockées en association avec une identité fournie par ledit ordinateur client. | 35 |
| 21. | Procédé selon la revendication 17, comprenant en outre l'étape consistant à déterminer ladite au moins une incitation d'achat au moins en partie sur la base de données d'historique d'achat en ligne stockées en association avec une identité fournie par ledit ordinateur client. | 40 |
| 22. | Procédé selon la revendication 1, dans lequel l'étape consistant à générer sur ledit ordinateur serveur (300) ladite incitation d'achat pour ledit consommateur a pour base au moins en partie des données d'historique d'achat associées à une identification | 45 |
| | dudit consommateur et stockées dans une base de données d'historique d'achats (502) ; et l'étape consistant à : | 50 |
| | transmettre ladite incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire du dit réseau informatique (304) à une adresse de courrier électronique associée à une identification dudit consommateur et stockée dans une base de données de consommateurs (306). | 55 |
| 23. | Procédé selon la revendication 22, comprenant en outre les étapes consistant à : | 55 |
| | enregistrer ledit consommateur lorsque ledit ordinateur client se connecte audit ordinateur serveur en obtenant des informations d'enregistrement comprenant une adresse de courrier électronique depuis ledit ordinateur client ; et transférer lesdites informations d'enregistrement contenant ladite adresse de courrier électronique à une base de données de consommateurs. | 60 |
| 24. | Procédé selon la revendication 22, dans lequel ladite étape consistant à générer ladite incitation d'achat consiste à faire dépendre ladite incitation d'achat de données démographiques stockées dans ladite base de données de consommateurs (506) en association avec une identification dudit consommateur. | 65 |
| 25. | Procédé selon la revendication 22, dans lequel ladite étape consistant à générer ladite incitation d'achat consiste à faire dépendre ladite incitation d'achat de la fréquence d'utilisation d'incitations d'achat associées à ladite identification dudit consommateur. | 70 |
| 26. | Procédé selon la revendication 22, dans lequel ladite étape consistant à générer ladite incitation d'achat consiste à faire dépendre ladite incitation d'achat de la fréquence d'utilisation d'un système connecté comprenant ledit ordinateur serveur, ladite utilisation étant associée à une identification dudit consommateur. | 75 |
| 27. | Procédé selon la revendication 22, dans lequel ladite étape consistant à générer ladite incitation d'achat consiste à faire dépendre ladite incitation d'achat du fait de savoir si ledit ordinateur serveur (300) a reçu un signal contenant ladite identification au cours d'une période de temps précédente sélectionnée. | 80 |
| 28. | Procédé selon la revendication 22, dans lequel ladite étape consistant à générer ladite incitation | 85 |

- d'achat consiste à faire dépendre ladite incitation d'achat du fait de savoir si ladite identification est associée au rachat d'une incitation d'achat proposée en ligne pendant une période de temps précédente sélectionnée.
29. Procédé selon la revendication 1, comprenant en outre les étapes consistant à transmettre une invitation à fournir des informations personnelles depuis ledit ordinateur serveur (300) audit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304), à transmettre des données d'informations personnelles depuis ledit ordinateur client (302) audit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) en réponse à ladite invitation, et
- générer des données de page définissant une page Web ayant pour base lesdites données d'informations personnelles ; et
- affecter une adresse de page Web à ladite page Web sur la base desdites données d'informations personnelles.
30. Procédé selon la revendication 29, comprenant en outre l'étape consistant à communiquer ladite adresse de page Web audit ordinateur client (302).
31. Procédé selon la revendication 29, comprenant en outre l'étape consistant à transmettre des données définissant ladite page Web personnelle audit ordinateur client (302).
32. Procédé selon la revendication 29, dans lequel lesdites informations personnelles comprennent un code d'identification.
33. Procédé selon la revendication 29, dans lequel lesdites informations personnelles comprennent un code d'identification et ladite adresse de page dépend dudit code d'identification.
34. Procédé selon la revendication 29, dans lequel lesdites informations personnelles comprennent un code d'identification, et comprenant en outre l'étape consistant à stocker lesdites données d'informations personnelles dans une base de données d'informations personnelles (606).
35. Procédé selon la revendication 29, comprenant en outre la transmission d'un message de recommandation concernant ladite page personnelle mise à jour depuis ledit ordinateur serveur (300) audit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304).
36. Procédé selon la revendication 29, dans lequel lesdites données d'informations personnelles comprennent un code d'identification, et comprenant en
- 5 10 15 20 25 30 35 40 45 50 55
- autre les étapes consistant à :
- stocker dans une base de données d'historique d'achats (502) des données identifiant des produits achetés en association avec ledit code d'identification ; et
- déterminer ladite incitation d'achat en fonction au moins en partie desdites données stockées dans ladite base de données d'historique d'achats (502) en association avec ledit code d'identification.
37. Procédé selon la revendication 36, dans lequel ladite étape de détermination de ladite incitation d'achat consiste à faire dépendre ladite incitation d'achat de données de page stockées dans ladite base de données de pages personnelles (606).
38. Procédé selon la revendication 36, comprenant en outre l'étape consistant à afficher ladite incitation d'achat dans ladite page Web ayant ladite adresse de page Web.
39. Procédé selon la revendication 36, dans lequel ladite étape de détermination de ladite incitation d'achat consiste à sélectionner ladite incitation d'achat parmi des offres d'incitations fournies par un fabricant de produits.
40. Procédé selon la revendication 36, dans lequel ladite étape de détermination de ladite incitation d'achat consiste à déterminer ladite incitation d'achat sur la base de données démographiques stockées dans la base de données de pages personnelles.
41. Procédé selon la revendication 36, dans lequel ladite étape de détermination d'incitation d'achat consiste à déterminer ladite incitation d'achat sur la base d'une fréquence d'utilisation d'incitations d'achat.
42. Procédé selon la revendication 36, dans lequel ladite étape de détermination de ladite incitation d'achat consiste à déterminer ladite incitation d'achat sur la base d'une fréquence d'utilisation de ladite page personnelle.
43. Procédé selon la revendication 1, comprenant en outre les étapes consistant à :
- déterminer des produits achetés en magasin de détail et achetés à l'emplacement d'un terminal de point de vente dans un magasin de détail en association avec un code d'identité unique, et à stocker des données identifiant lesdits produits achetés en magasin en association avec ledit code d'identité unique dans

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|---|---------|--|
| <p>une base de données (502), déterminer des produits achetés en réseau qui ont été achetés en association avec ledit code d'identité unique au moyen de communications par l'intermédiaire dudit réseau informatique (304) en association avec ledit code d'identité unique ; et stocker des données identifiant lesdits produits achetés en réseau en association avec ledit code d'identité unique dans ladite base de données (502).</p> | 5
10 | <p>une identité dudit détaillant désigné par lesdites données de sélection d'offres d'incitation et une identité de consommateur correspondant auxdites données d'identité ; et des moyens pour transmettre lesdites données définissant ladite incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302).</p> |
| <p>44. Procédé selon la revendication 43, dans lequel ledit réseau informatique est constitué par l'Internet.</p> | 15 | <p>48. Système selon la revendication 47, comprenant en outre :</p> |
| <p>45. Procédé selon la revendication 43, comprenant en outre les étapes consistant à :</p> | 20 | <p>des moyens pour transmettre depuis ledit ordinateur serveur (300) une première liste de produits disponibles pour l'achat chez ledit détaillant depuis ledit ordinateur serveur (300) audit ordinateur client (302) ;</p> |
| <p>transmettre un signal par l'intermédiaire de l'Internet à une adresse pour un code d'identification correspondant à un consommateur, informant ledit consommateur d'une incitation définie par des données d'incitation ; et transmettre un signal par l'intermédiaire de l'Internet à une adresse correspondant à un magasin de détail informant ledit magasin de détail de ladite incitation et dudit code d'identité.</p> | 25 | <p>des moyens pour transmettre des données de sélection de produits depuis ledit ordinateur client (302) audit ordinateur serveur (300), lesdites données de sélection de produits désignant des produits dans ladite première liste de produits ; et des moyens pour transmettre une liste d'achat ayant pour base lesdites données de sélection de produits depuis ledit ordinateur serveur (300) audit ordinateur client (302).</p> |
| <p>46. Procédé selon la revendication 43, comprenant en outre l'étape consistant à transmettre un signal par l'intermédiaire de l'Internet à une adresse correspondant à un client, contenant des données définissant un coupon, afin que le coupon puisse être imprimé par le consommateur au moyen d'une imprimante commandée à ladite adresse.</p> | 30 | <p>49. Système selon la revendication 48, dans lequel ladite liste d'achat indique des produits sur ladite liste d'achat pour lesquels il existe des incitations d'achat.</p> |
| <p>47. Système pour distribuer des incitations d'achats à des consommateurs de détail par l'intermédiaire d'un réseau informatique (304), ledit système comprenant un ordinateur serveur (300), un ordinateur client (302) chez le consommateur, et un réseau (304), ledit système étant caractérisé par :</p> | 35 | <p>50. Système selon la revendication 47, dans lequel lesdits moyens pour transmettre ladite pluralité d'offres d'incitation permettent de transmettre des offres d'incitation ne provenant que de fabricants de produits spécifiques depuis ledit ordinateur serveur par l'intermédiaire dudit réseau informatique audit ordinateur client.</p> |
| <p>des moyens pour transmettre une identification d'une pluralité d'offres d'incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (300) audit ordinateur client (302) ; des moyens pour transmettre des données de sélection d'offres d'incitation depuis ledit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304) audit ordinateur serveur (300), lesdites données de sélection d'offres d'incitation contenant la désignation d'un détaillant ; des moyens pour générer sur ledit ordinateur serveur (300) des données définissant une incitation d'achat contenant sous forme codée</p> | 40 | <p>51. Système selon la revendication 47, dans lequel lesdits moyens pour transmettre ladite pluralité d'offres d'incitation permettent de transmettre des offres d'incitation ne provenant que de détaillants spécifiques depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302).</p> |
| <p>des moyens destinés à former une image graphique composite affichant sous une forme lisible par l'être humain les modalités et les con-</p> | 45 | <p>52. Système selon la revendication 47, dans lequel lesdits moyens destinés à générer lesdites données définissant lesdites incitations d'achats, comprennent :</p> |
| | 50 | |
| | 55 | |

- ditions de l'incitation en fusionnant (1) lesdites données de sélection d'offres d'incitation et (2) des données de non-sélection d'offres d'incitation sous la forme de ladite image graphique composite ; et
des moyens destinés à transmettre ladite image d'incitation graphique composite depuis le dit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302). 10
- 53.** Système selon la revendication 52, comprenant en outre :
des moyens destinés à générer sur ledit ordinateur serveur (300) un motif complexe d'arrière-plan graphique pour ladite image d'incitation graphique composite ; et
des moyens destinés à fusionner ledit motif complexe d'arrière-plan graphique dans ladite image graphique composite. 15
- 54.** Système selon la revendication 47, dans lequel lesdits moyens destinés à transmettre lesdites données définissant ladite incitation d'achat comprennent en outre :
des moyens destinés à transmettre lesdites données définissant ladite incitation d'achat sous la forme d'un message de recommandation depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302) ; et
des moyens destinés à transmettre depuis ledit ordinateur serveur (300) les modalités d'une offre d'incitation d'achat à un ordinateur (310) dudit détaillant. 20
- 55.** Système selon la revendication 47, dans lequel lesdits moyens destinés à transmettre lesdites données définissant ladite incitation d'achat, comprennent en outre :
des moyens destinés à transmettre des données définissant ladite incitation d'achat sous la forme d'un symbole d'incitation depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302), ledit symbole d'incitation correspondant à ladite incitation d'achat ; et
des moyens destinés à transmettre depuis ledit ordinateur serveur (300) les modalités de ladite incitation d'achat à un ordinateur (310) dudit détaillant. 25
- 56.** Système selon la revendication 55, dans lequel ledit symbole comprend un code à barres. 30
- 57.** Système selon la revendication 47, comprenant en outre :
des moyens destinés à recevoir sur ledit ordinateur serveur (300) des données régionales provenant dudit ordinateur client ; et
dans lequel ladite incitation d'achat peut s'exercer dans une région correspondant auxdites données régionales. 35
- 58.** Système selon la revendication 47, dans lequel ladite pluralité d'achats comprend au moins une offre d'incitation émanant d'un fabricant de produits et au moins une offre d'incitation émanant d'un détaillant de produits. 40
- 59.** Système selon la revendication 47, comprenant en outre :
des moyens destinés à associer lesdites données d'identité à des données d'achat antérieurs d'au moins un achat antérieur ;
des moyens destinés à déterminer des données de sélection d'offres d'incitation devant être transmises depuis ledit ordinateur serveur (300) audit ordinateur client (302) sur la base desdites données d'achats antérieurs. 45
- 60.** Système selon la revendication 47, comprenant en outre :
des moyens destinés à transmettre une invitation à fournir des données régionales depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) audit ordinateur client (302) ;
en réponse à ladite invitation, des moyens destinés à transmettre des données régionales identifiant une région sélectionnée depuis ledit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304) audit ordinateur serveur (300) ; et
des moyens destinés à transmettre ladite incitation d'achat depuis ledit ordinateur serveur (300) audit ordinateur client (304), dans lequel ladite incitation d'achat est offerte par un détaillant se trouvant dans ladite région sélectionnée. 50
- 61.** Système selon la revendication 60, dans lequel ladite offre d'incitation régionale sélectionnée définit une offre qui n'est disponible que dans des magasins se trouvant dans ladite région sélectionnée. 55
- 62.** Système selon la revendication 60, dans lequel ladite région sélectionnée correspond à une région de code postal. 60

- 63.** Système selon la revendication 47, comprenant en outre :
- des moyens destinés à recevoir sur ledit ordinateur serveur (300) des données de sélection indiquant au moins une recette dans une liste de recettes ;
- des moyens destinés à transmettre depuis ledit ordinateur serveur audit ordinateur client (302) une liste d'achat qui contient des ingrédients destinés à ladite au moins une recette et ladite au moins une incitation d'achat, pour l'achat d'un produit correspondant à au moins l'un desdits ingrédients.
- 5
- 64.** Système selon la revendication 63, comprenant en outre des moyens destinés à transmettre ladite liste de recettes depuis ledit ordinateur serveur (300) audit ordinateur client (302).
- 10
- 65.** Système selon la revendication 63, comprenant en outre des moyens destinés à déterminer ladite au moins une incitation d'achat au moins en partie sur la base de données régionales fournies par ledit ordinateur client.
- 15
- 66.** Système selon la revendication 63, comprenant en outre des moyens destinés à déterminer ladite au moins une incitation d'achat au moins en partie sur la base de données d'historique d'achats antérieurs stockée en association avec une identité fournie par ledit ordinateur client.
- 20
- 67.** Système selon la revendication 63, comprenant des moyens destinés à déterminer ladite au moins une incitation d'achat au moins en partie sur la base de données d'historique d'achat en ligne stockées en association avec une identité fournie par ledit ordinateur client.
- 25
- 68.** Système selon la revendication 47, dans lequel ladite incitation d'achat a pour base au moins en partie des données d'historique d'achats associées à une identification dudit consommateur et stockées dans une base de données d'historique d'achats (502) ; et
- des moyens destinés à transmettre ladite incitation d'achat depuis ledit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique (304) à une adresse de courrier électronique associée à une identification dudit consommateur stockée dans une base de données de consommateurs (506).
- 30
- 69.** Système selon la revendication 68, comprenant en outre :
- des moyens destinés à enregistrer ledit con-
- 35
- sommateur lorsque ledit ordinateur client se connecte audit ordinateur serveur en obtenant des informations d'enregistrement contenant une adresse de courrier électronique depuis ledit ordinateur client ; et
- des moyens destinés à transférer lesdites informations d'enregistrement contenant ladite adresse de courrier électronique à une base de données de consommateurs (506).
- 40
- 70.** Système selon la revendication 68, dans lequel lesdits moyens destinés à générer ladite incitation d'achat, comprennent des moyens destinés à faire dépendre ladite incitation d'achat de données démographiques stockées dans ladite base de données de consommateurs (502) en association avec une identification dudit consommateur.
- 45
- 71.** Système selon la revendication 68, dans lequel lesdits moyens destinés à générer ladite incitation d'achat comprennent des moyens destinés à faire dépendre ladite incitation d'achat d'une fréquence d'utilisation d'incitations d'achat associées à ladite identification dudit consommateur.
- 50
- 72.** Système selon la revendication 68, dans lequel lesdits moyens destinés à générer ladite incitation d'achat comprennent des moyens destinés à faire dépendre ladite incitation d'achat d'une fréquence d'utilisation d'un système en ligne comprenant ledit ordinateur serveur, ladite utilisation étant associée à une identification dudit consommateur.
- 55
- 73.** Système selon la revendication 68, dans lequel lesdits moyens destinés à générer ladite incitation d'achat comprennent des moyens destinés à faire dépendre ladite incitation d'achat du fait de savoir si ledit ordinateur serveur (300) a reçu un signal contenant ladite identification au cours d'une période de temps précédente sélectionnée.
- 60
- 74.** Système selon la revendication 68, dans lequel lesdits moyens destinés à générer ladite incitation d'achat comprennent des moyens destinés à faire dépendre ladite incitation d'achat du fait de savoir si ladite identification est associée au rachat d'une incitation d'achat proposée en ligne pendant une période de temps précédente sélectionnée.
- 65
- 75.** Système selon la revendication 47, comprenant en outre des moyens destinés à transmettre une invitation à fournir des informations personnelles depuis ledit ordinateur serveur (300) audit ordinateur client (302) par l'intermédiaire dudit réseau informatique (304), des moyens destinés à transmettre des données d'informations personnelles depuis ledit ordinateur client (302) audit ordinateur serveur (300) par l'intermédiaire dudit réseau informatique

- (304) en réponse à ladite invitation,
des moyens destinés à générer des données,
de page définissant une page Web ayant pour base
lesdites données d'informations personnelles ; et
des moyens destinés à affecter une adresse
de page Web à ladite page Web sur la base desdi-
tes données d'informations personnelles.
- 76.** Système selon la revendication 75, comprenant en
outre des moyens destinés à communiquer ladite
adresse de page Web audit ordinateur client (302).
- 77.** Système selon la revendication 75, comprenant en
outre des moyens destinés à transmettre des don-
nées définissant ladite page Web personnelle audit
ordinateur client (302).
- 78.** Système selon la revendication 75, dans lequel les-
dites informations personnelles comprennent un
code d'identification.
- 79.** Système selon la revendication 75, dans lequel les-
dites informations personnelles comprennent un
code d'identification et ladite adresse de page dé-
pend dudit code d'identification.
- 80.** Système selon la revendication 75, dans lequel les-
dites informations personnelles comprennent un
code d'identification et comprenant en outre des
moyens destinés à stocker lesdites données d'in-
formations personnelles dans une base de données
d'informations personnelles (606).
- 81.** Système selon la revendication 75, comprenant en
outre des moyens destinés à transmettre un mes-
sage de recommandation concernant ladite page
personnelle mise à jour depuis ledit ordinateur ser-
veur (300) audit ordinateur client (302) par l'inter-
médiaire dudit réseau informatique (304).
- 82.** Système selon la revendication 75, dans lequel les-
dites données d'informations personnelles com-
prennent un code d'identification, et comprenant en
outre :

des moyens destinés à stocker dans ladite ba-
se de données d'historique d'achats (502) des
données identifiant des produits achetés en as-
sociation avec ledit code d'identification ; et
des moyens destinés à déterminer une incita-
tion d'achat dépendant au moins en partie des-
dites données stockées dans ladite base de
données d'historique d'achats (502) en asso-
ciation avec ledit code d'identification.
- 83.** Système selon la revendication 82, dans lequel des
moyens destinés à déterminer ladite incitation
d'achat comprennent des moyens destinés à faire
dépendre ladite incitation de données de pages
stockées dans ladite base de données de pages
personnelles (606).
- 84.** Système selon la revendication 82, comprenant en
outre des moyens destinés à afficher ladite incita-
tion d'achat dans ladite page Web ayant ladite
adresse de page Web.
- 85.** Système selon la revendication 82, dans lequel les
moyens destinés à déterminer ladite incitation
d'achat comprennent des moyens destinés à sélec-
tionner ladite incitation d'achat parmi des offres d'in-
citations fournies par un fabricant de produits.
- 86.** Système selon la revendication 82, dans lequel les-
dits moyens destinés à déterminer ladite incitation
d'achat comprennent des moyens destinés à déter-
miner ladite incitation d'achat sur la base de don-
nées démographiques stockées dans la base de
données de pages personnelles.
- 87.** Système selon la revendication 82, dans lequel les-
dits moyens destinés à déterminer l'incitation
d'achat comprennent des moyens destinés à déter-
miner ladite incitation d'achat sur la base d'une fré-
quence d'utilisation d'incitations d'achat.
- 88.** Système selon la revendication 82, dans lequel les-
dits moyens destinés à déterminer ladite incitation
d'achat comprennent des moyens destinés à déter-
miner ladite incitation d'achat sur la base d'une fré-
quence d'utilisation de ladite page personnelle.
- 89.** Système selon la revendication 47, comprenant en
outre :

des moyens destinés à déterminer des produits
achetés en magasin de détail, qui ont été achat-
és à l'emplacement d'un terminal de point de
vente dans un magasin de détail en association
avec un code d'identité unique et à stocker des
données identifiant lesdits produits achetés en
magasin en association avec ledit code d'iden-
tité unique dans une base de données (502),
des moyens destinés à déterminer des produits
achetés en réseau, qui ont été achetés en as-
sociation avec ledit code d'identité unique, au
moyen d'une communication par l'intermédiai-
re dudit réseau informatique (304) en associa-
tion avec ledit code d'identité unique ; et
des moyens destinés à stocker des données
identifiant lesdits produits achetés en réseau
en association avec ledit code d'identification
unique dans ladite base de données (502).
- 90.** Système selon la revendication 89, dans lequel ledit
réseau informatique est constitué par l'Internet.

91. Système selon la revendication 89, comprenant en outre :

des moyens destinés à transmettre un signal par l'intermédiaire de l'Internet à une adresse correspondant à un code d'identification pour un consommateur informant ledit consommateur d'une incitation définie par des données d'incitation ; et
des moyens destinés à transmettre un signal par l'intermédiaire de l'Internet à une adresse correspondant à un magasin de détail, informant ledit magasin de détail de ladite incitation et dudit code d'identité.

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92. Système selon la revendication 89 comprenant en outre des moyens destinés à transmettre un signal par l'intermédiaire de l'Internet à une adresse correspondant à un consommateur, contenant des données définissant un coupon afin que le coupon puisse être imprimé par le consommateur au moyen d'une imprimante commandée à ladite adresse.

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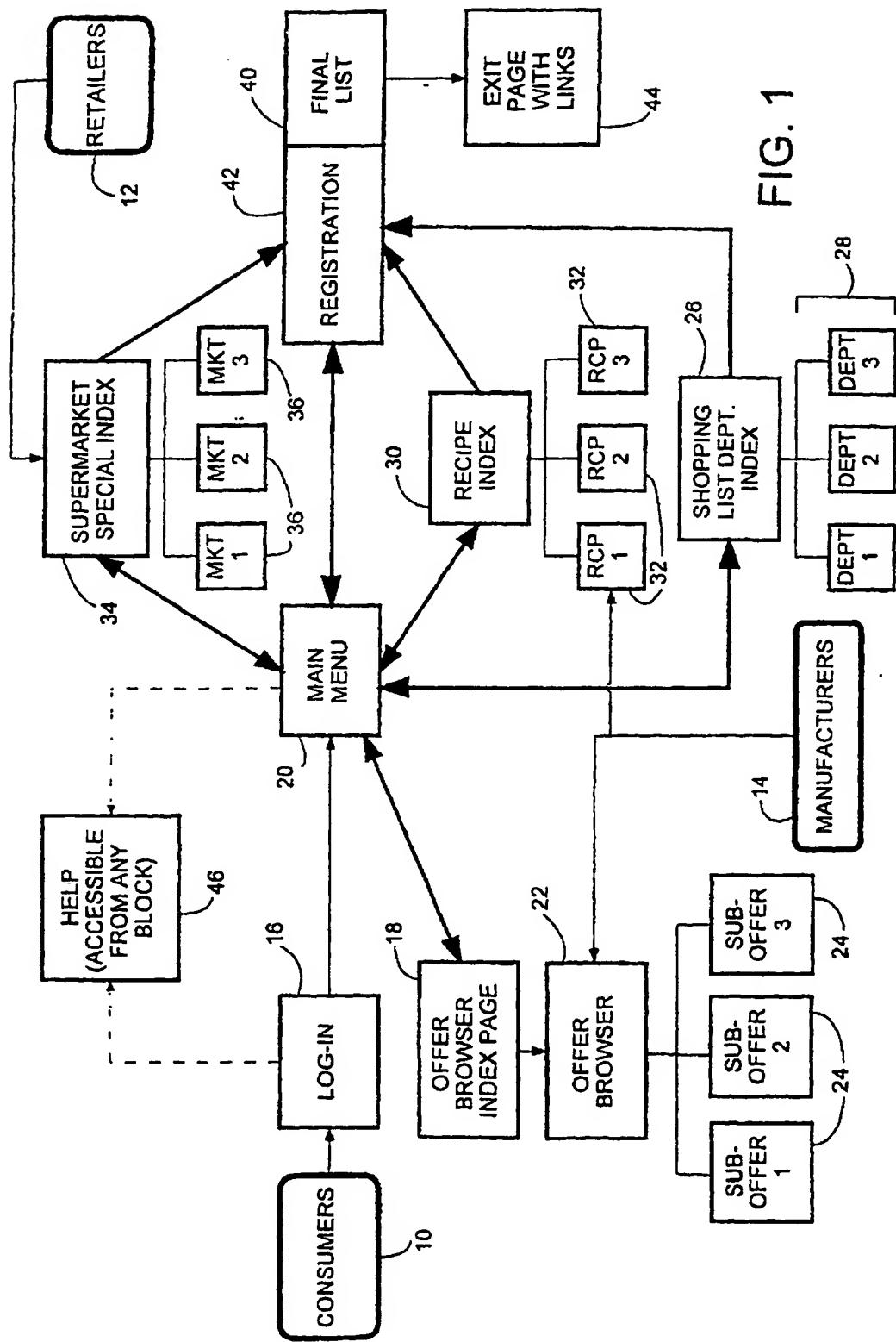


FIG. 1

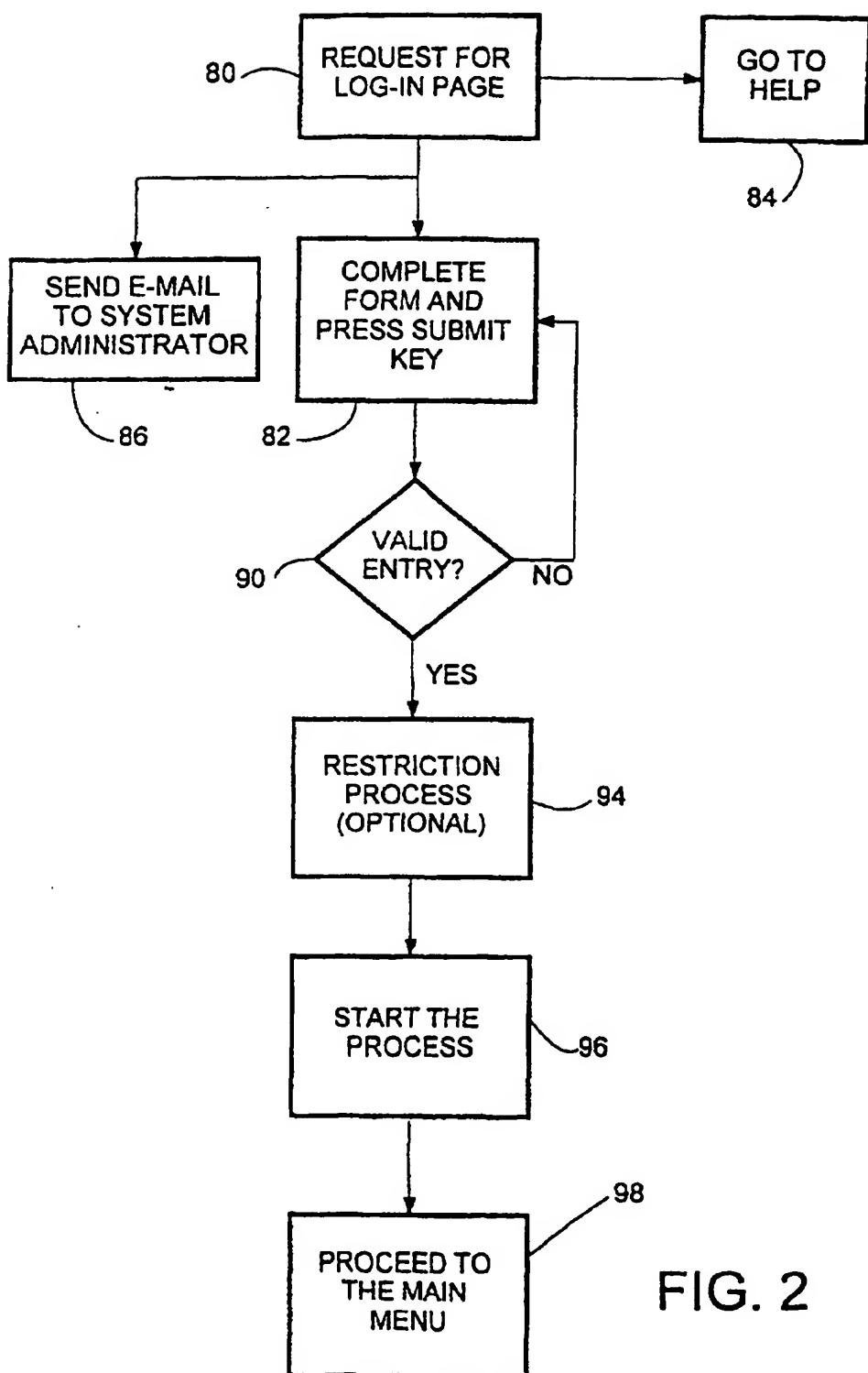


FIG. 2

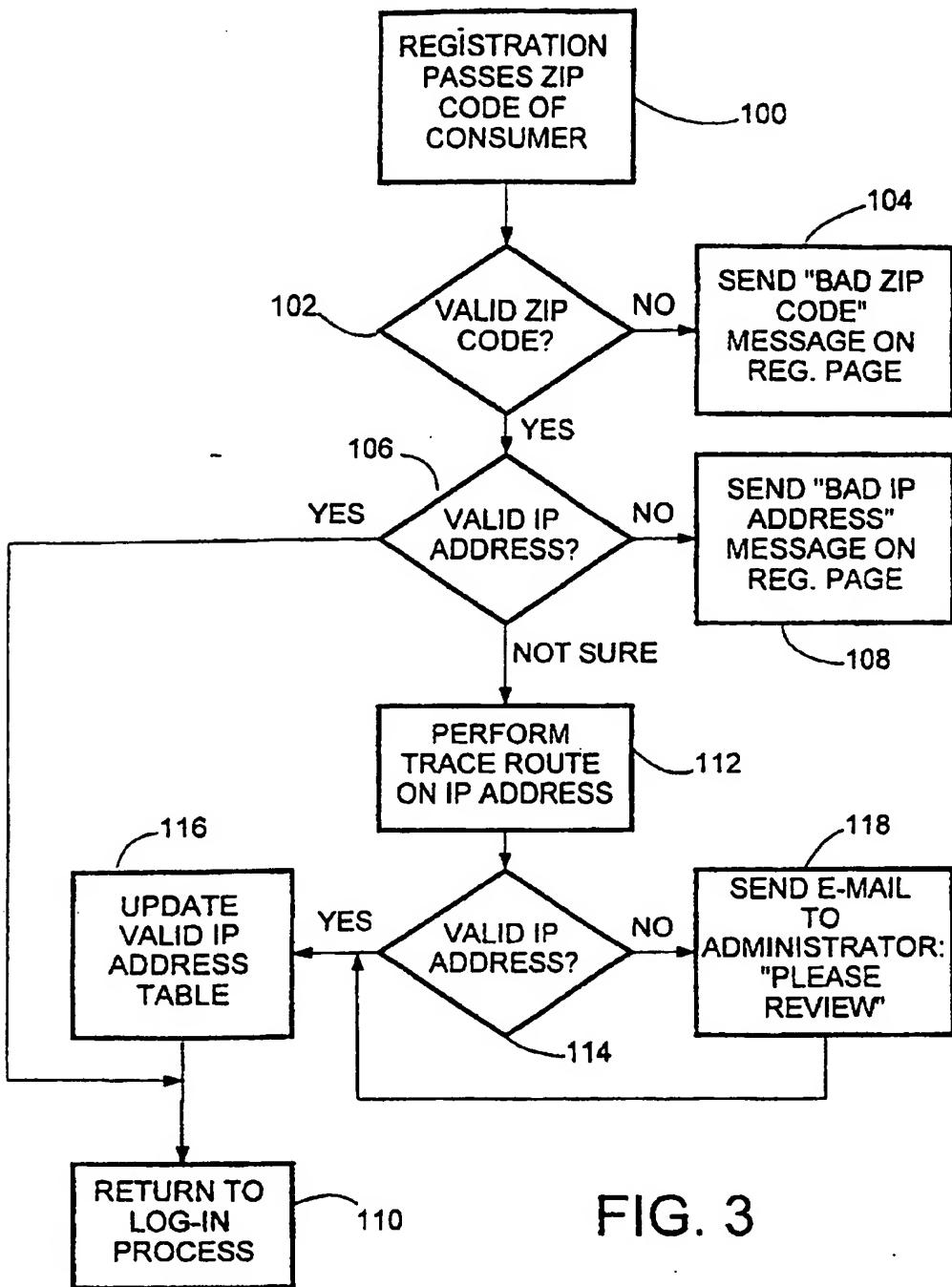


FIG. 3

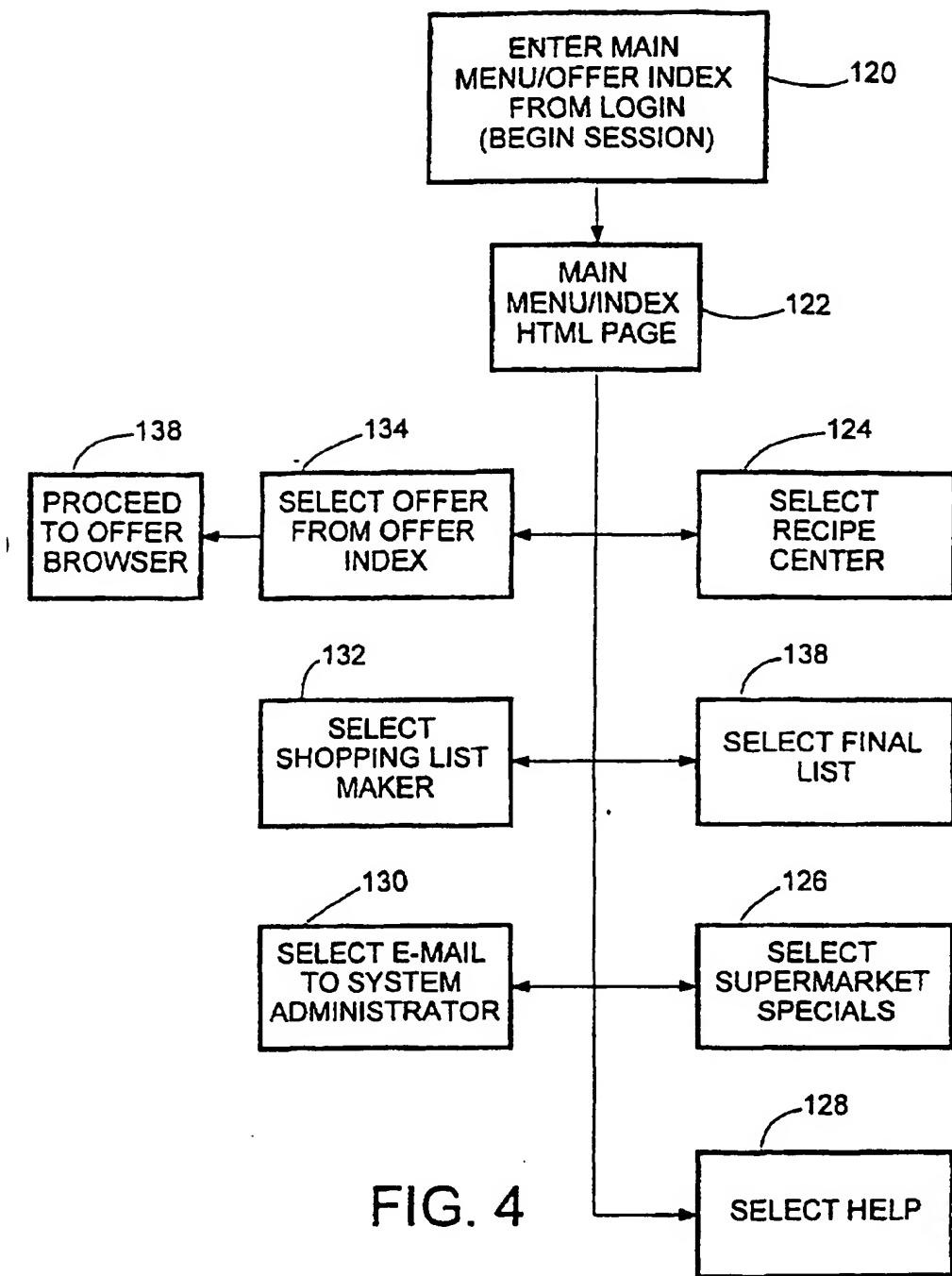
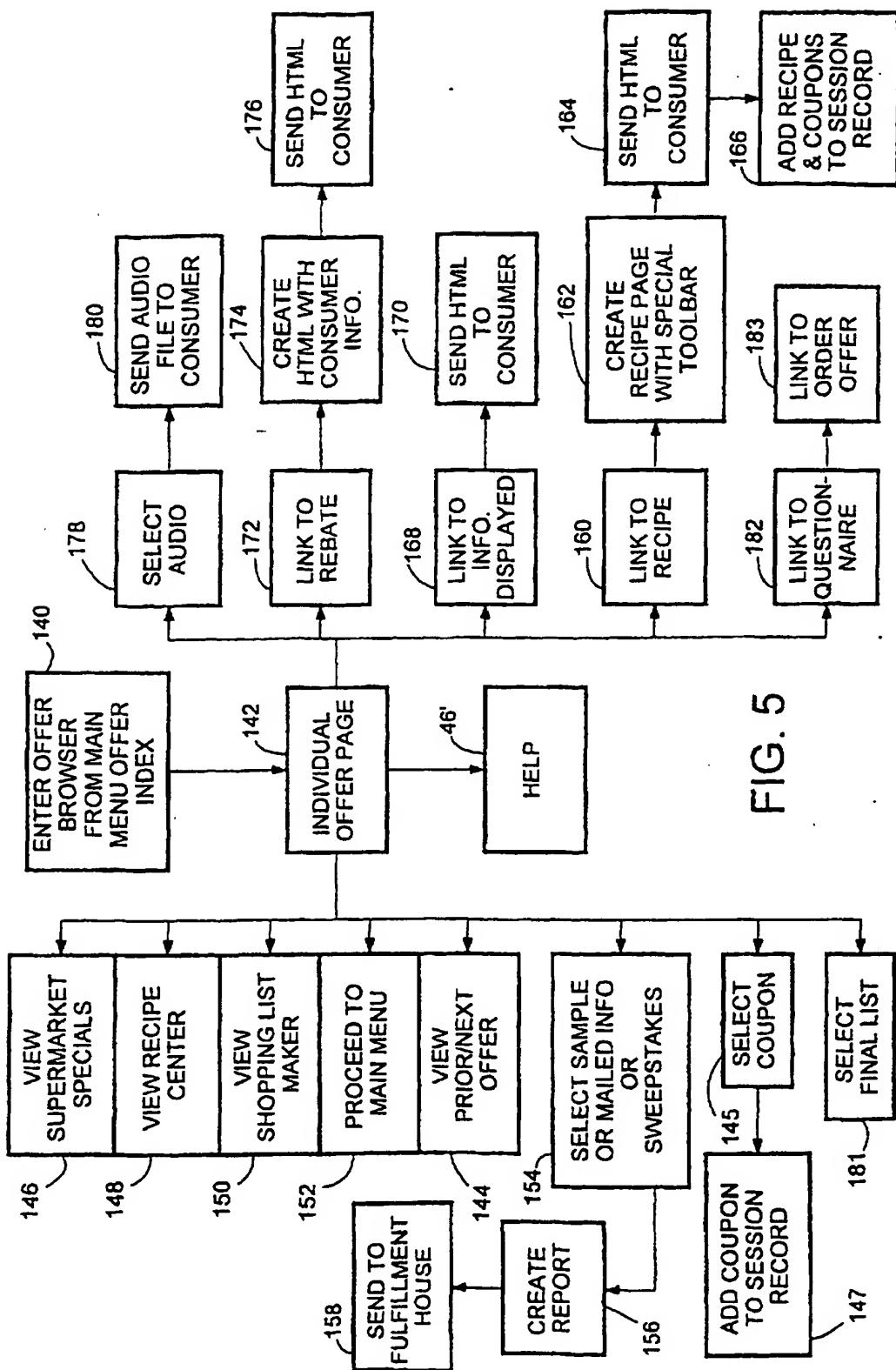


FIG. 4



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E

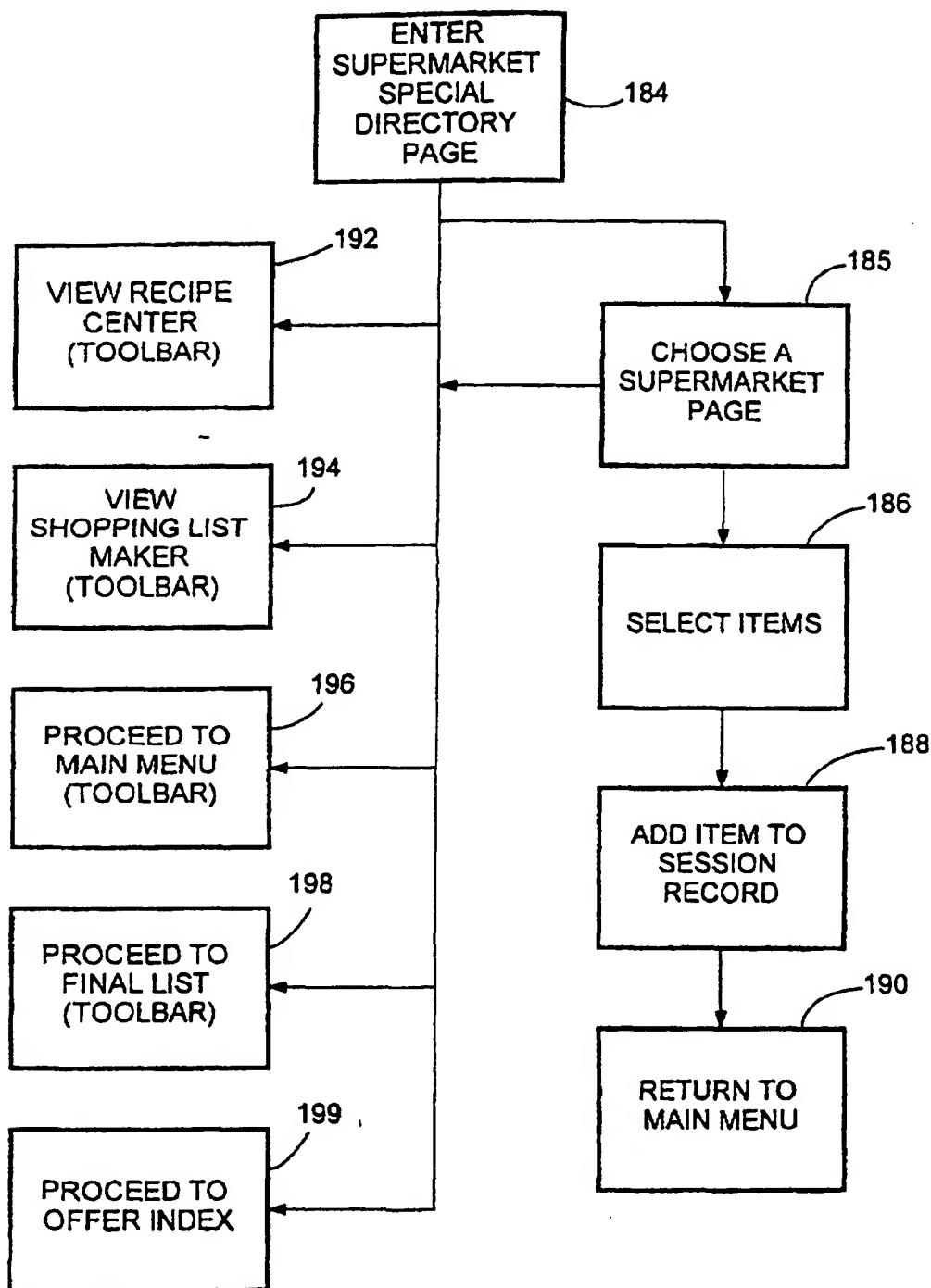


FIG. 6

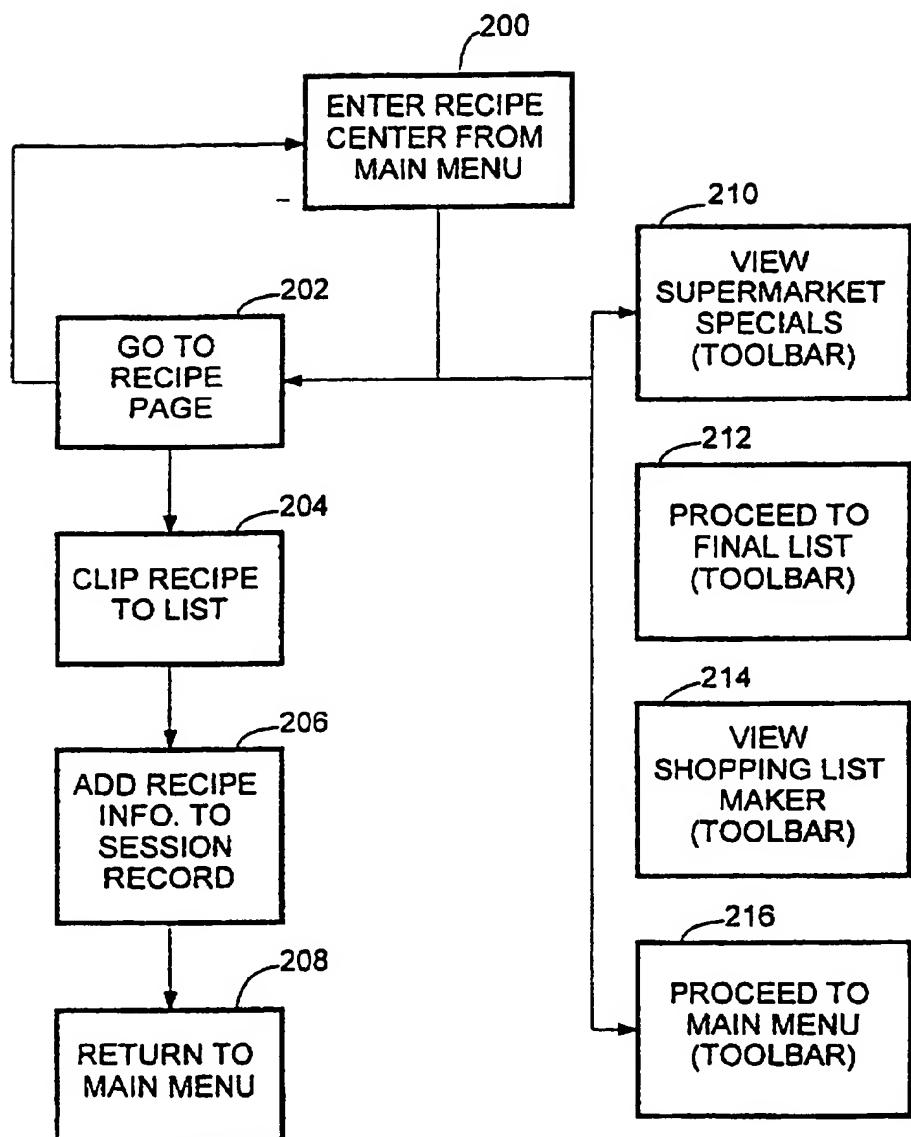


FIG. 7

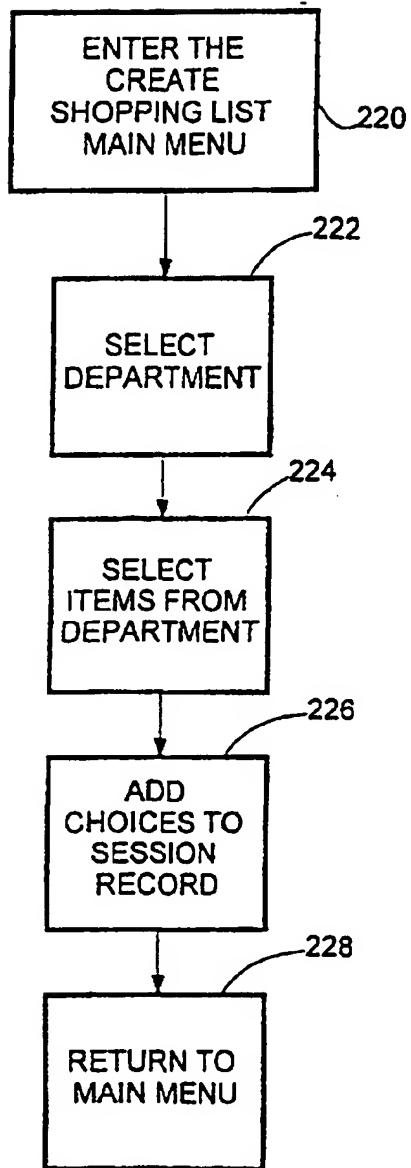


FIG. 8

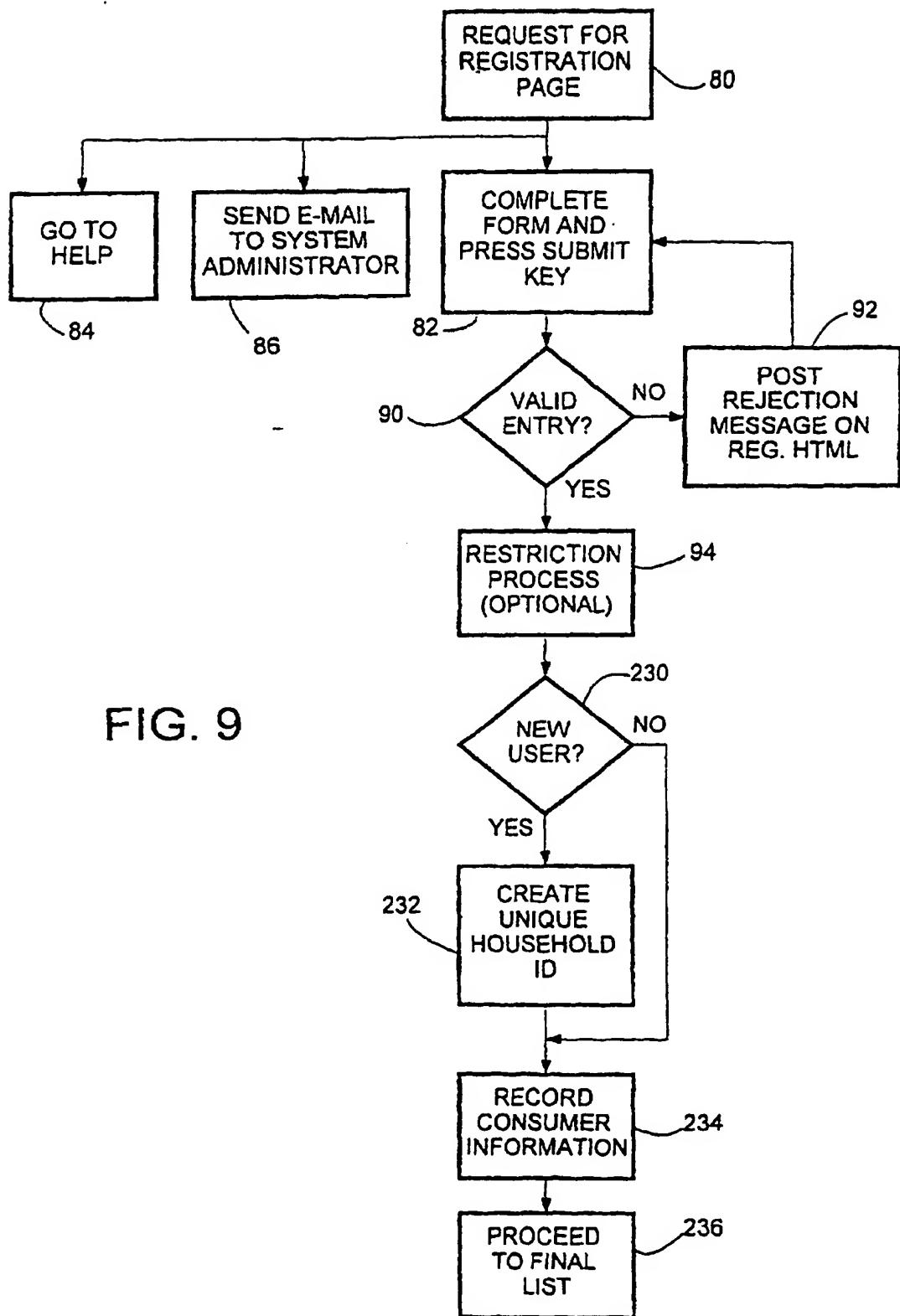


FIG. 9

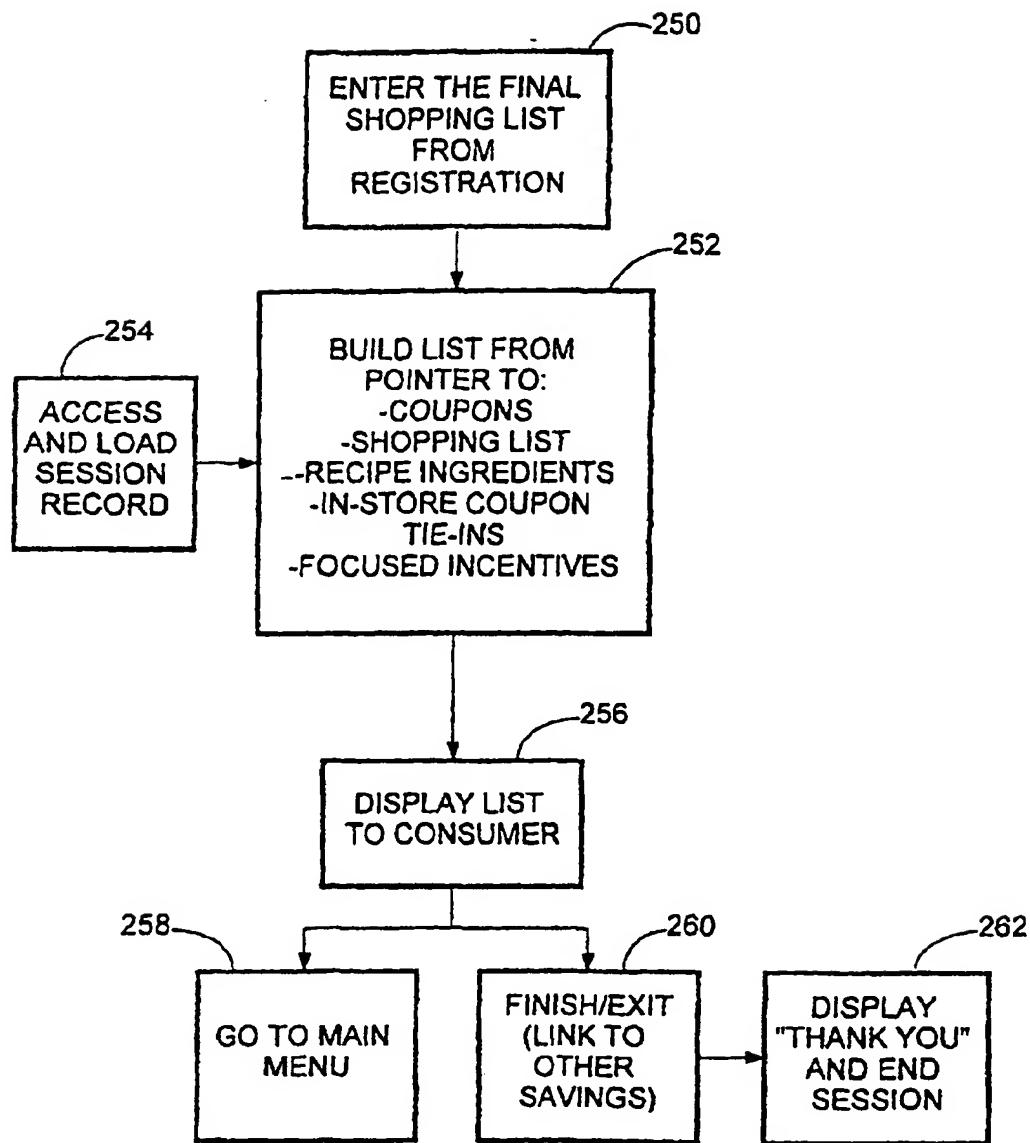


FIG. 10

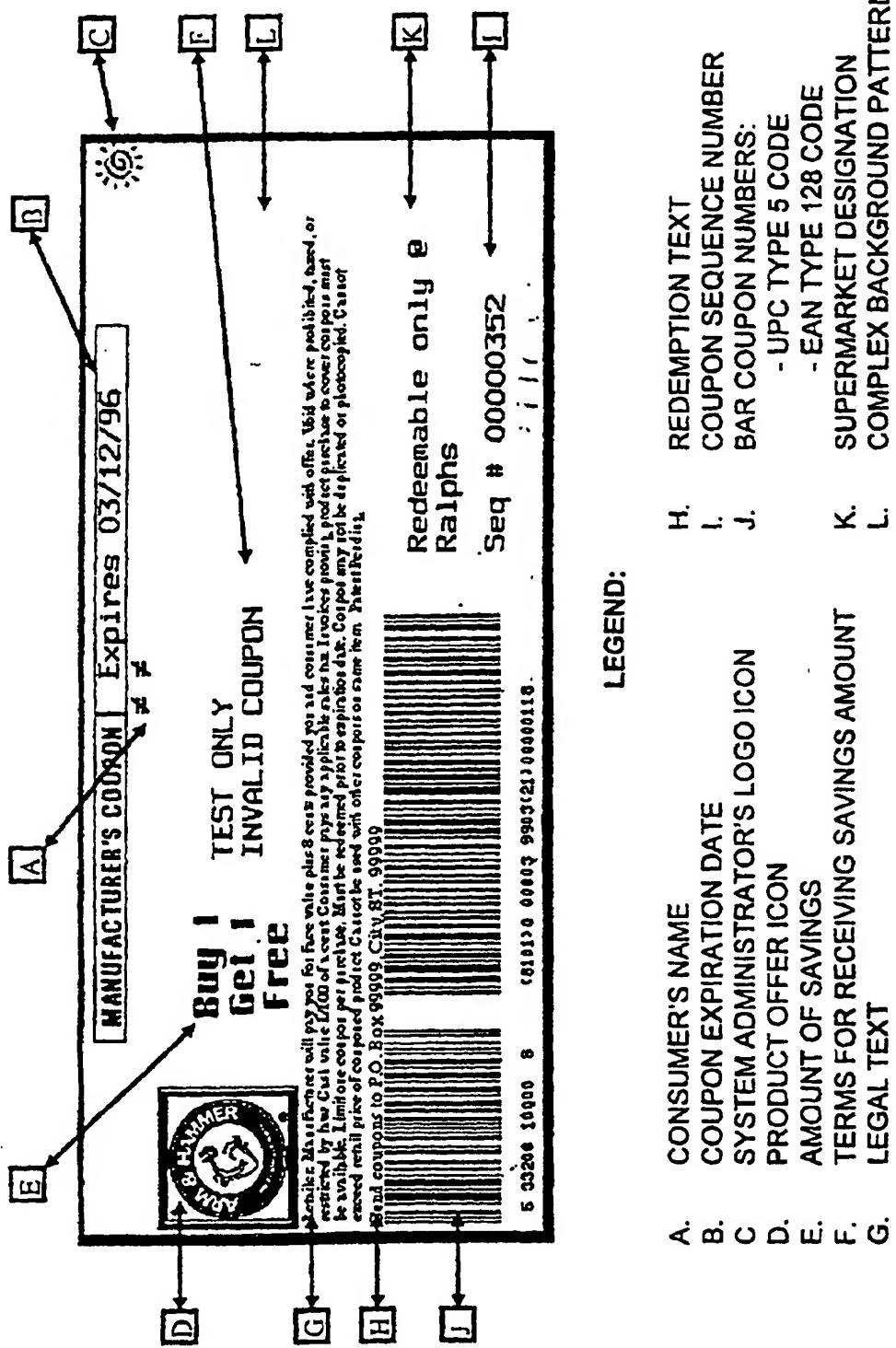
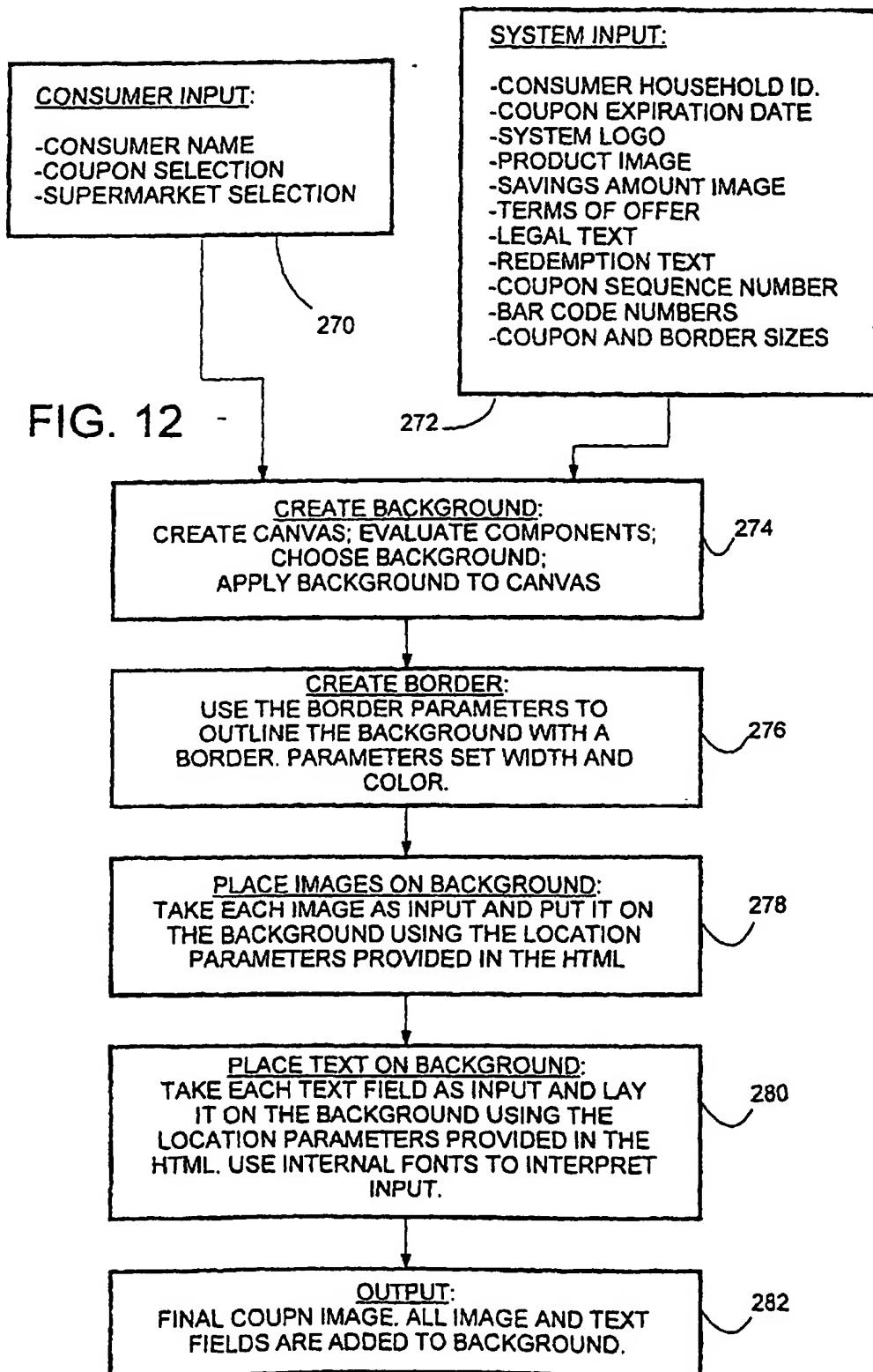


FIG. 11



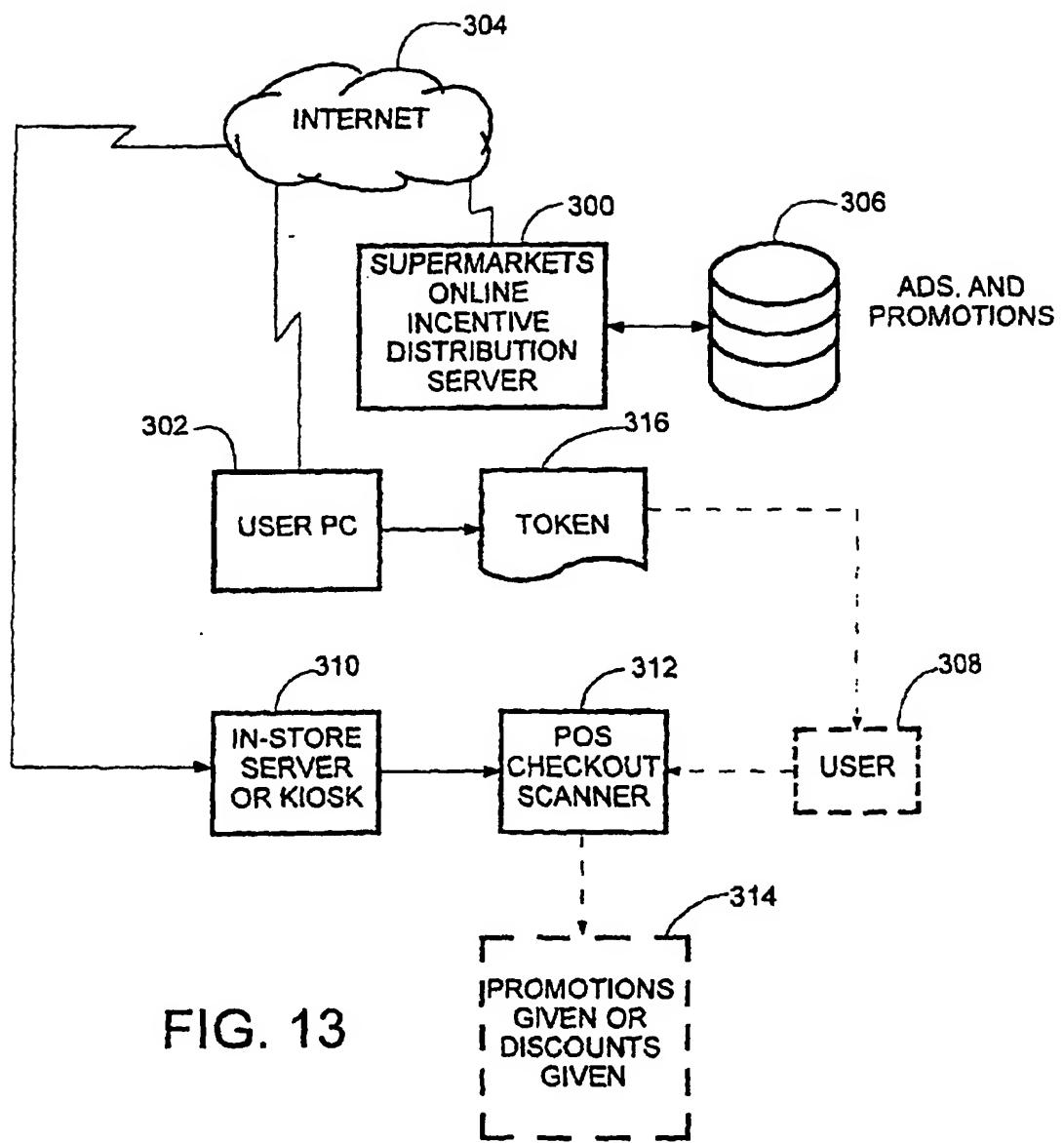


FIG. 13

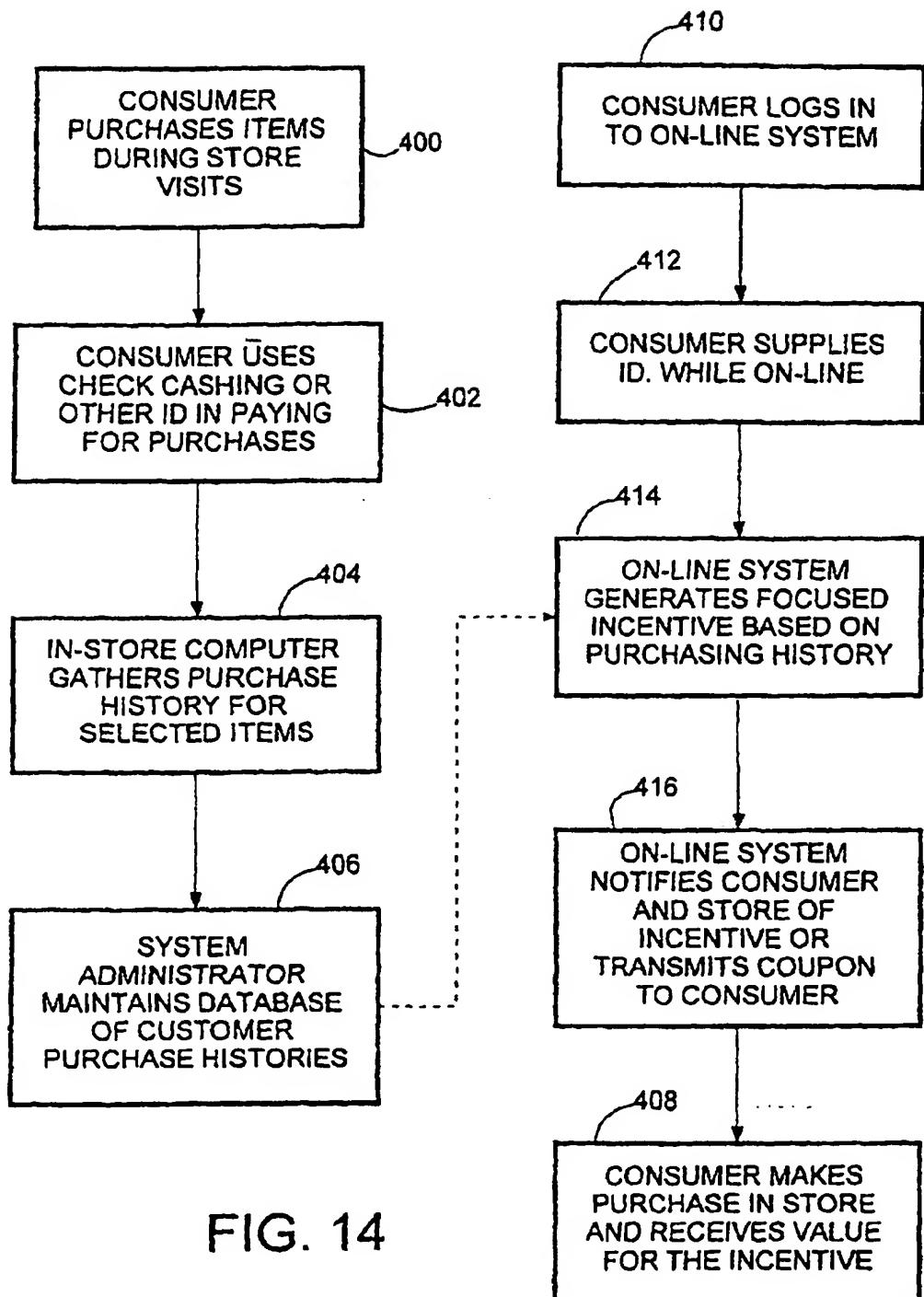
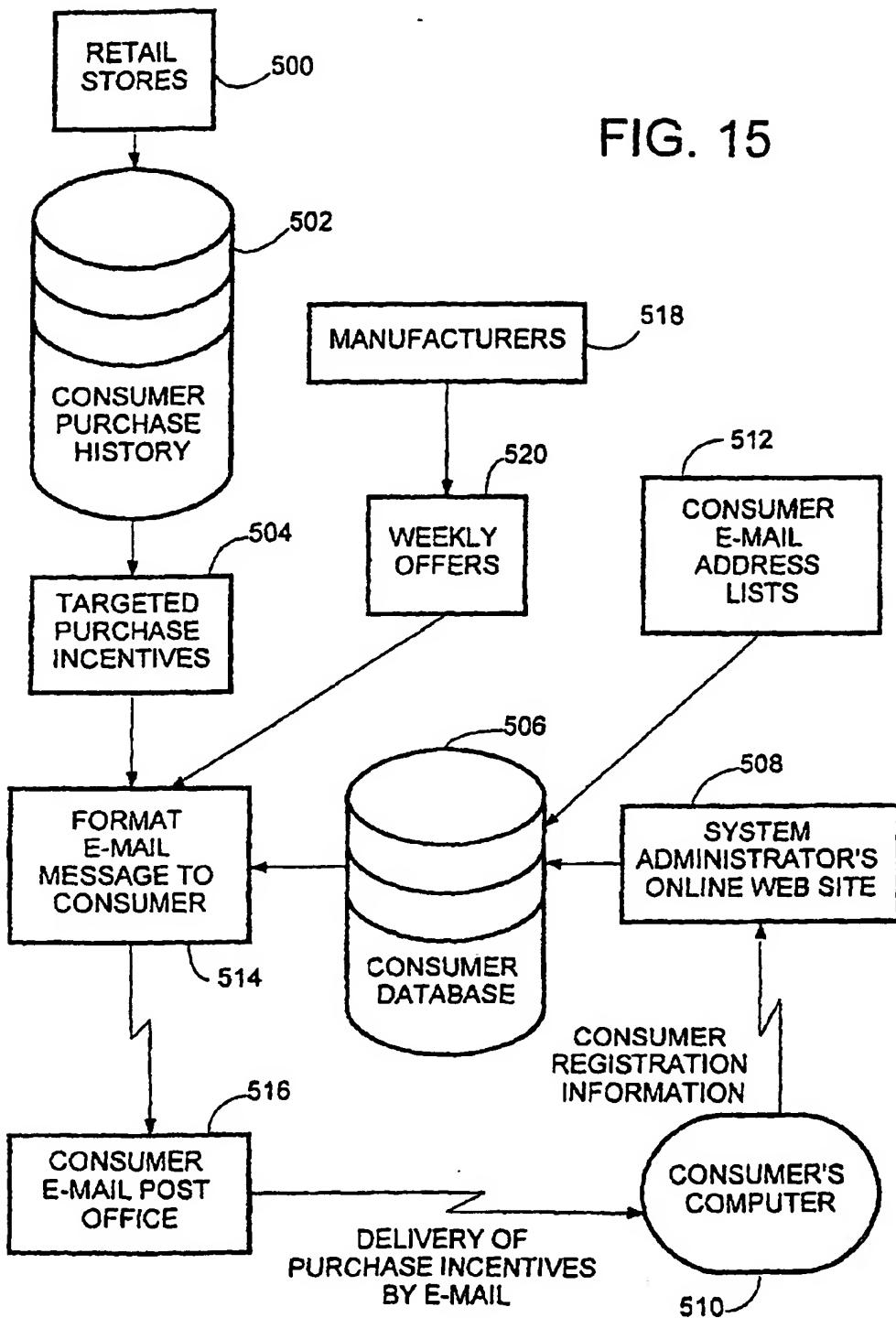


FIG. 14

FIG. 15



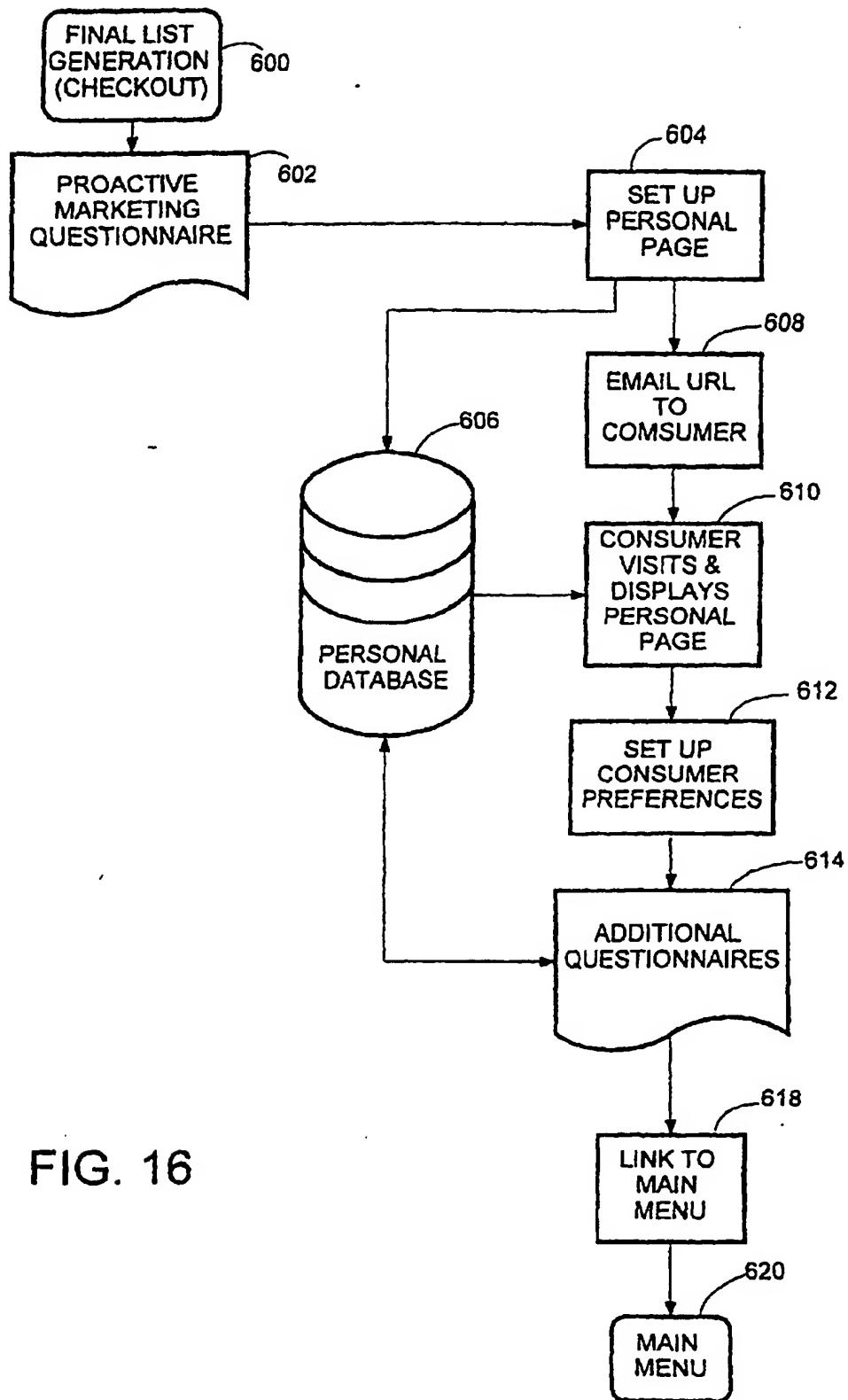


FIG. 16

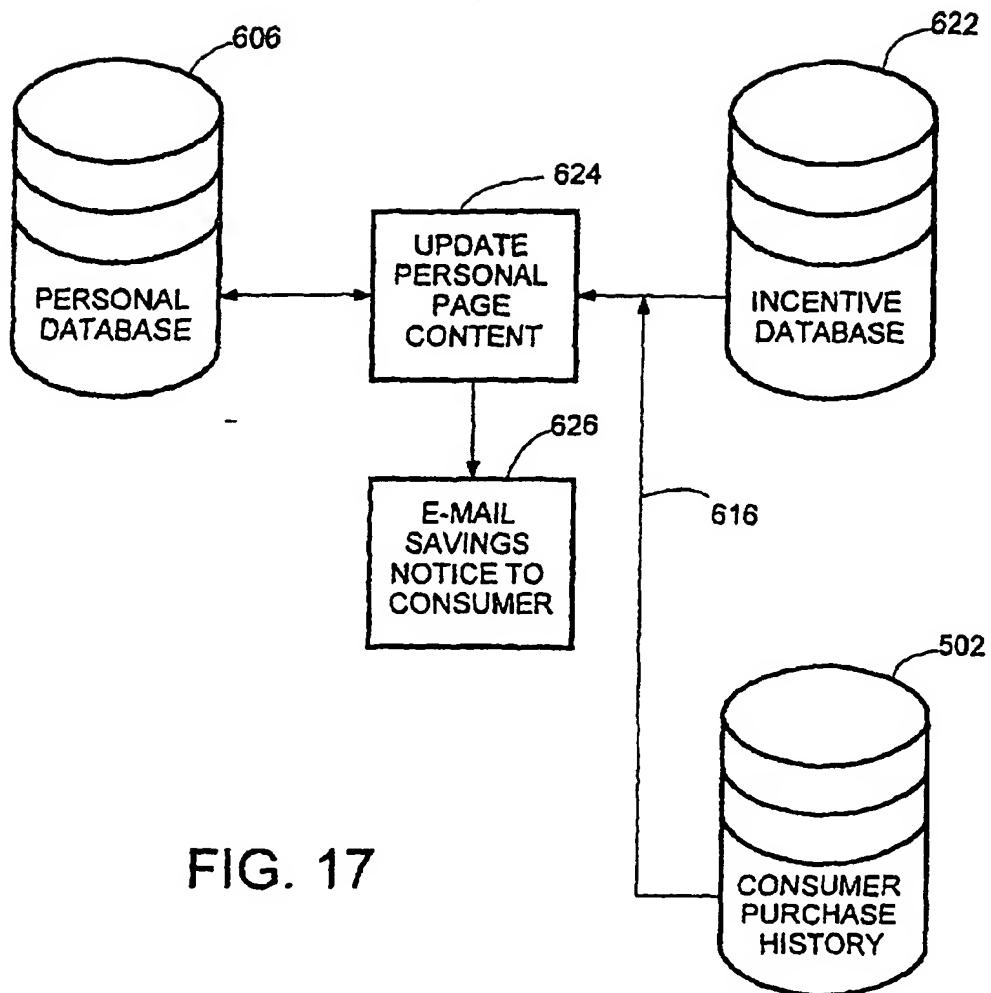


FIG. 17

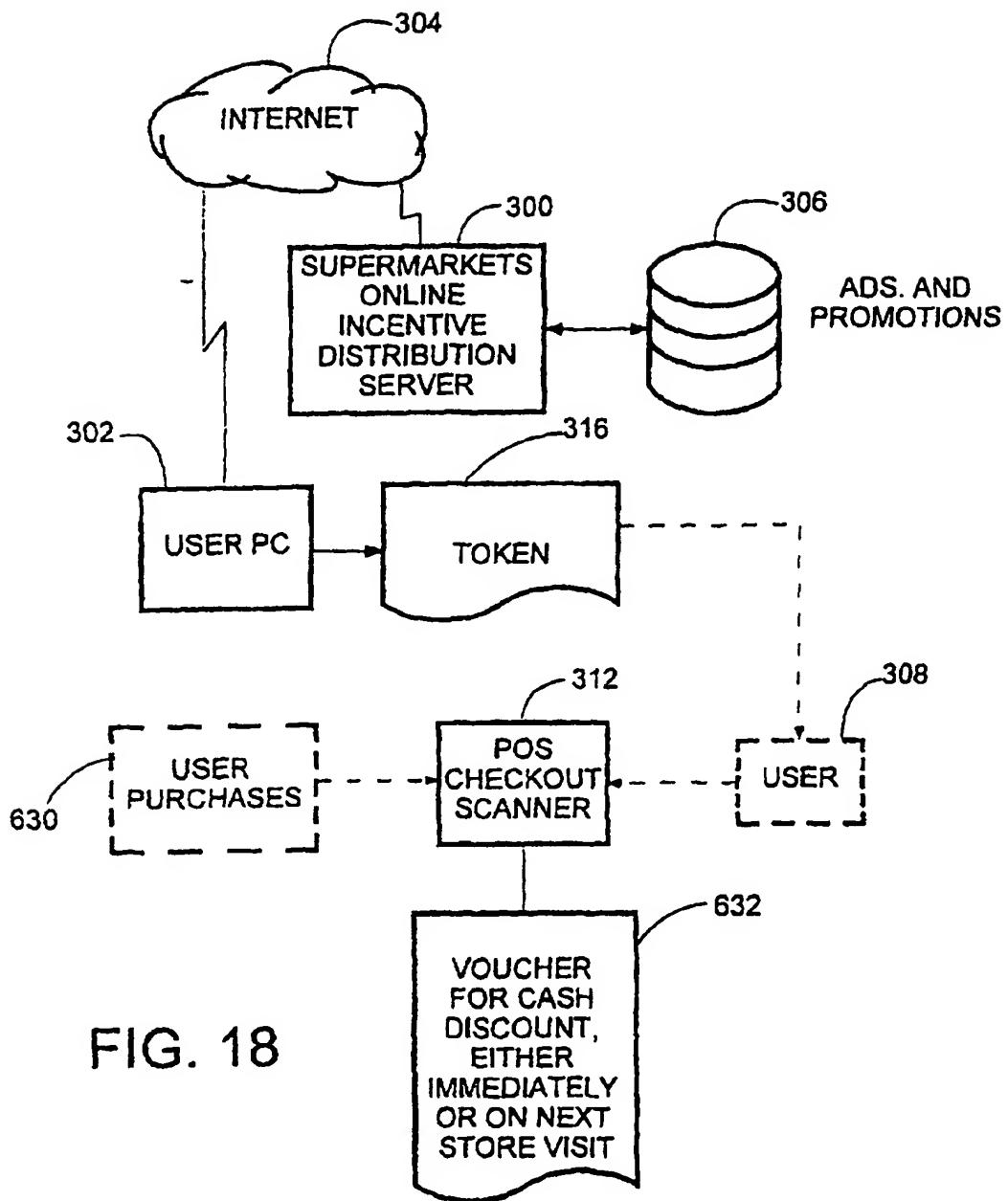


FIG. 18